Historic, archived document

Do not assume content reflects current scientific knowledge, policies, or practices.

1.9622
N3St1
Cop 2

PUBLICATIONS OF THE NORTHERN ROCKY MOUNTAIN FOREST AND RANGE EXPERIMENT STATION

1912 *Through* 1950

LIBRARY
CURRENT SERIAL RECORD
SEP 10 1951
U.S. DEPARTMENT OF AGRICULTURE

- Northern -
Rocky Mountain
Forest & Range
Experiment Station
Missoula Montana

George M. Jemison, Director

UNITED STATES DEPARTMENT OF AGRICULTURE
FOREST SERVICE

Station Paper Nº 31

July 1951

PUBLICATIONS OF THE NORTHERN ROCKY MOUNTAIN FOREST AND RANGE EXPERIMENT STATION 1912 through 1950

Station Paper No. 31 July 1951

Foreword

The most significant reports published by members of the staff of the Northern Rocky Mountain Forest and Range Experiment Station, from its beginning through 1950, are listed in the following pages. To facilitate finding publications by authors, subject matter, and series, three separate lists are given: (1) an index of authors, (2) a classified subject matter list, and (3) a list of station publications by series.

The list of authors is arranged alphabetically. Numbers after an author's name refer to the pages in the subject matter list, in which the complete reference to an author's publications is given.

The classified subject matter list is divided into the following twelve categories:

General Forestry	Page 1	Forest Engineering	Page 31
Forest Botany	" 3	Forest Management	" 31
Silviculture	" 5	Forest Economics	" 35
Forest Protection	" 13	Range Management	" 42
Lumbering	" 25	Water Resource Management	" 49
Forest Technology	" 29	Associated Uses	" 49

For a number of years the station has released reports in various publications series. These series are given in the third list, which is arranged numerically by releases.

In 1920 the station published its first series entitled "Applied Forestry Notes". Since that time and up through 1950, a total of 270 reports have been released in the six station series listed below:

Applied Forestry Notes	1 through 93 (discontinued)
Forest Survey Releases	1 through 21 (discontinued)
Forest Survey Statistical Service	1 through 18 (discontinued)
Station Papers	1 through 25
Research Notes	1 through 85
Miscellaneous Publications	1

The three current series are chiefly different in their length. Shorter manuscripts are published as Research Notes and longer ones as Station Papers. Miscellaneous Publications include handbooks, experimental forest guide books, maps, and other material not classified elsewhere.

Many of the earlier publications have been supplanted by more recent releases; the supply of other publications is exhausted. Those which are available for distribution are marked "A"; those available on a loan basis only are marked "L"; and those which are unavailable, "U". (Many of the latter can be found in libraries and in professional, scientific and other periodicals.

INDEX OF AUTHORS

Name	Pages
Adams, Lowell	10, 13, 49
Allred, B. W.	48
Anderson, I. V.	25, 26, 27, 29, 31, 35
Averill, C.	4
Barrows, J. S.	14
Baudendistel, Martin E.	49
Bloom, C. W.	32
Boe, Kenneth N.	2, 5, 9, 32
Bradner, M.	27, 30, 32, 35
Brewster, D. R.	5
Brown, C. W.	35, 39
Chapline, W. R.	2
Collins, R. W.	42
Costello, D. F.	48
Coville, P.	2
Cummings, L. J.	32, 35
Cunningham, R. N.	1, 2, 39
Cushman, W. H.	5
Davis, K. P.	5, 6, 7, 14, 32, 35
DeJarnette, G. M.	35
Delavan, C. C.	12, 23
Dickerman, M. B.	1, 35, 36, 40
Division of Engineering, R-1	31
Division of Flood Control Surveys	49
Division of Forest Economics	32, 36, 37, 38, 39
Division of Forest Products	3
Division of Forest Utilization Service	27, 29
Division of Range Research	42
Division of Silviculture	6, 32
Duncan, G.	26
Ehrlich, J.	14
Ellison, L.	42
Evanko, A. B.	42
Evenden, J. C.	14

Name	Pages
Fahnestock, G. R.	6
Finch, Thomas L.	32, 39
Fisher, G. M.	3
Foiles, Marvin W.	6
Friedrich, C. A.	1, 42, 43
Fullaway, S. V., Jr.	1, 2, 27, 29, 35, 39
Girard, J. W.	35
Gisborne, H. T.	1, 6, 14, 15, 16, 17, 18, 19, 20, 21, 30, 39
Haig, I. T.	3, 6, 7, 32, 33
Hanavan, Mitchell G.	13
Hanson, P. D.	24
Hanson, R.	34
Harris, G. A.	1
Hayes, G. L.	21
Helmers, A. E.	7, 10, 49
Hill, C. L.	29
Hodge, W. C.	31, 35, 39
Holmes, P. N.	39
Holscher, C. E.	43
Hornby, L. G.	17, 22
Hosley, Neil W.	13
Huberman, M. A.	3
Hubert, E. E.	29
Huey, Ben M.	33, 40
Hurtt, L. C.	42, 43, 44, 45, 46
Hutchison, S. B.	40, 41, 42
Jemison, G. M.	22, 23, 30, 31
Johnson, H. M.	29
Johnson, R. P. A.	30
Johnston, David W.	13
Kachin, T.	19
Keilman, M. H.	14
Kemp, P. D.	33, 35, 40
Kempff, G.	7
Kennedy, F. H.	46
Kitchin, P. C.	7
Klehm, K. A.	6
Klobucher, F. J.	27, 35
Knapp, Bradford, Jr.	48
Larsen, J. A.	3, 4, 5, 7, 8, 23, 33, 41
LeBarron, R. K.	1, 8, 9, 39, 41
Little, E. M.	24
Lowdermilk, W. C.	8, 9
Lyman, C. K.	23

Name	Pages
Marshall, R.	1, 4, 9
McKeever, D. G.	9
Meik, E. E.	46
Metcalf, M. E.	33, 39
Miller, F. G.	2, 9
Moss, V. D.	14
Mueller, L. A.	27, 30
Munns, E. N.	2
Neff, P.	32
Peffer, E. F.	41
Peiffer, A.	24
Peterson, Roald	46
Pissot, H. J.	40, 41
Polk, R. Brooks	9
Rapraeger, E. F.	10, 27, 28, 29, 30, 33, 41, 47
Richards, L. W.	24
Rockwell, F. I.	4, 28
Roe, A. L.	2, 10, 24, 34
Rogers, E. C.	10
Schaefer, Vincent J.	24
Schnur, L. G.	2
Schopmeyer, C. S.	10
Shallenberger, G. D.	24
Shames, L.	24
Short, L. R.	47
Smith, R. J.	7
Squillace, A. E.	10
Stickel, P. W.	24
Swan, K. D.	47
Swanson, R. E.	35
Tebbe, C. L.	24
Thomoson, Kenneth	49
Timm, J. L.	34, 41
Trimble, G. R., Jr.	49
Tripp, Norman R.	49
University of Idaho, Sch. of Forestry	24
USDA, BPISAE, Bur. For. Pathology	24
USDA, Forest Service, Northern Rocky Mtn. For. & Range Exp. Sta.	24
Varney, R. M.	35
Wahlenberg, W. G.	11, 12
Watt, Richard F.	34
Watts, L. F.	2

Name	Pages
Weidman, R. H.	2, 4, 5, 7, 12, 24, 28, 41
Wellner, C. A.	4, 6, 12, 13, 24, 34
Weydemeyer, W.	47
Whitney, C. N.	1, 30, 31, 34, 40, 41, 42
Winters, R. K.	28, 40, 42
Wirka, R. M.	31
Woolfolk, E. J.	42, 45, 47, 48
Wyckoff, S. N.	2
Zach, L. W.	34, 42
Zon, R.	13

CLASSIFIED SUBJECT MATTER LIST

O - GENERAL FORESTRY

U Cunningham, R. N., Fullaway, S. V., Jr., and Whitney, C. N.
Montana forest and timber handbook. School of Forestry, Univ. of Montana. 162 pp., illus. 1926.

A Dickerman, M. B.
The meaning of conservation. Proceedings of Western Farm Economics Association. June 1950.

U Gisborne, H. T.
Progress in forest fire research. Northwest Sci. 7(3):71-76. 1933.

A _____
The challenge to the Society of American Foresters. Jour. Forestry 41(11):803-807. 1943.

A Harris, Grant A., and Friedrich, C. Allan
A selected bibliography on range management literature. 19 pp., mimeo. 1947.

U _____
A selected bibliography of range management literature published in 1947. 14 pp., mimeo. Vol. 1, No. 2, October 1948.

A _____
A selected bibliography of range management literature published in 1948. Vol. 1, No. 3, October 1949.

A _____
A selected bibliography of range management literature published in 1949. Vol. 1, No. 4, September 1950.

A LeBarron, Russell K.
The social implications of forest management research. 7 pp. Northwest Science XXI(3):119-121. 1947.

U Marshall, Robert
Volume production in forestry literature. Jour. Forestry 25(2):178-180. 1927.

U _____
A proposed remedy for our forestry illness. Jour. Forestry 28(3):273-280. 1930.

U Miller, F. G., Cunningham, R. N., Fullaway, S. V. Jr., Whitney, C. N., and Morse, C. B.
The Idaho forest and timber handbook. School of Forestry, Univ. of Idaho Bul. 22. 155 pp., illus. 1927.

A Roe, Arthur L. and Boe, Kenneth N.
Ponderosa pine bibliography. Station Paper 22. 74 pp. Proc. March 1950.

U Watts, Lyle F.
Public domain and other federal forest land. Copeland Report, vol. 1, pp. 637-650. Govt. Print. Off., Washington. 1933.

U _____ and Coville, Perkins
Reforestation of barren and unproductive land. Copeland Report, vol. 2, pp. 1485-1508. Govt. Print. Off., Washington. 1933.

U _____ , Munns, E. N., Chapline, W. R., and Schnur, Luther G.
A watershed protection program. Copeland Report, Vol. 2, pp. 1509-1536. Govt. Print. Off., Washington. 1933.

U Weidman, R. H.
Proposals for western pine regions. Lumber World Rev. Nov. 10, 1923.

U _____
Forest experiments in Idaho. The Timberman. September 24, 1924.

U _____
Organization of the Forest Service in Finland. Jour. Forestry 24(5):591-593. 1926.

U _____
Forest research activities in the northern Rocky Mountain region. Northwest Sci. II(2):33-37. 1928.

U _____
What is research? Northwest Sci. III(2):42-44. 1929.

U _____
Progress of research in silviculture in the Inland Empire. Northwest Sci. VII(3):67-71. 1933.

U Wyckoff, S. N.
Education for forest research. The Idaho Forester, pp. 12-14. 1937.

1 - FOREST BOTANY

A Division of Forest Products
Check list of the native and naturalized trees of Region One. 6 pp. Mimeo. 1944.

U Fisher, George M.
Comparative germination of tree species on various kinds of surface-soil material in the western white pine type. Ecology 16(4):606-611. 1935.

U Haig, I. T.
Colloidal content and related soil factors as indicators of site quality. Yale Forestry School Bul. 24, 33 pp. 1929.

U _____
Review: Forest types of the northern Rocky Mountains and their climatic controls. (By J. A. Larsen) Jour. Forestry 29(7):1104-06. 1931.

U Huberman, M. A.
The role of western white pine in forest succession in northern Idaho. Ecology 16(2):137-151. 1935.

U Larsen, J. A.
Light requirements of forest trees and methods of measurement. (Abstract translation from Centralblatt fur das Gesamte Forstwesen Marienbrunn, Wien, Aug.-Sept. 1907.) April 15, 1916.

U _____
Silvical notes on western larch. Proc. Soc. Amer. Foresters 11(4):434-440. 1916.

U _____
Periodic fluctuation of precipitation in the Pacific Northwest. Idaho Farmer. February 1921.

U _____
Effect of removal of the virgin white pine stand upon the physical factors of site. Ecology 3(4):302-305. 1922.

U _____
Why hardwoods do not grow naturally in the west. Idaho Forester, 4:28-32. (Excerpt in Monthly Wea. Rev. 52(4):218, April 1924.) 1922.

U _____
Association of trees, shrubs, and other vegetation in northern Idaho forests. Ecology 4(1):63-67. 1923.

U Larsen, J. A.
The relation of leaf structure of conifers to light and moisture. Ecology 8(3):371-377. 1927.

U _____
Fires and forest succession in the Bitterroot Mountains of northern Idaho. Ecology 10(1):67-76. 1929.

U _____
Forest types of the northern Rocky Mountains and their climatic controls. Ecology 11(4):631-672. 1930.

U _____
Site factor variations and responses in temporary forest types in northern Idaho. Ecological Monographs 10:1-54. 1940.

U Marshall, Robert
Influence of precipitation cycles on forestry. Jour. Forestry 25(4):415-429. 1927.

U _____
The life history of some western pine stands on the Kaniksu National Forest. Northwest Sci. 2(2):48-53. 1928.

U _____ and Averill, Clarence
Soil alkalinity on recent burns. Ecology 9(4):533. 1928.

U _____
An experimental study of the water relations of seedling conifers with special reference to wilting. Ecological Monographs 1(1):39-98. 1931.

U Rockwell, F. I.
Basis of classification into forest types and its application to District 1. Proc. Soc. Amer. Foresters, vol. 8, p. 85. 1912-13.

U Weidman, R. H.
Forest succession as a basis of the silviculture of western yellow pine. Jour. Forestry 19(8):877-885. 1921.

U Wellner, C. A.
Native trees of Montana and northern Idaho. Mimeo. 43 pp. Illus. 1940.

A _____
Estimating light intensity in residual stands in advance of cutting. Research Note 47, 4 pp., tables. Mimeo. 1946.

A _____
Light intensity related to stand density in mature stands of the western white pine type. Jour. Forestry 46(1):16-19. 1948.

2 - SILVICULTURE

A Boe, K. N.
Composition and stocking of the young stand 35 years after a selective cutting in ponderosa pine. Research Note 63. 6 pp. Proc. May 1948.

U _____
Is Douglas-fir replacing ponderosa pine in the cut-over stands in western Montana? Proc. Montana Academy of Sciences, vols. 7 and 8, pp. 42-50. 1948.

U Brewster, D. R.
An improved form of nursery seed bed frame. Forestry Quarterly 14(2):183-187. 1916.

U _____
Silvical research work in District 1. Forestry Kaimin. April 1917.

U _____
Relation between height growth of larch seedlings and weather conditions. Jour. Forestry 16(8):861-870. 1918.

U _____ and Larsen, J. A.
Studies in western yellow pine nursery practice. Jour. Agr. Res. 31(12):1101. 1925.

L _____ and _____
Girdling as a means of removing undesirable tree species in the western white pine type. Jour. Agr. Res. 31(3):267. 1925.

A Cushman, W. H. and Weidman, R. H.
Survival increased by carefulness in field planting. Applied Forestry Note 81, 3 pp., tables. Mimeo. 1937.

U Davis, Kenneth P.
A method of determining spacing in thinning. Jour. Forestry 33(1):80-81. 1935.

U _____
Determination of effective stocking in seedling stands in the white pine type. Northern Region News (Missoula) 7(18):7-8. 1935.

L _____
Test of pruning equipment and methods in western white pine. Applied Forestry Note 76, 6 pp., illus. Mimeo. 1936.

U _____
Stand improvement measures for the western white pine type. Mimeo. 62 pp., illus. 1936.

U Davis, Kenneth P.
Weedings and thinnings in the western white pine forests. Southern Idaho Forester 2(2):28-31. 1938.

U _____ and Klehm, Karl A.
Controlled burning in the western white pine type. Jour. Forestry 37(5):399-407, illus. 1939.

A Division of Silviculture
Marking instructions for the white pine type in the northern Rocky Mountain region. Proc., 14 pp. 1947.

U Fahnestock, G. R. and Wellner, C. A.
Early effects of thinning pure ponderosa pine in western Montana. Research Note 3, 3 pp., illus., tables. Mimeo. 1940.

A Foiles, Marvin W.
Recommendations for poisoning western hemlock. Research Note 77. 2 pp., proc. February 1950.

U Gisborne, H. T.
Woodlands cut by the "selection method" less liable to fire damage. U. S. Dept. Agr. Yearbook, pp. 376-378. 1934.

U _____
Proposed bases for determining approved slash protection or disposal practices in the white pine type of northern Idaho. Unpub. ms. 1939.

U Haig, I. T.
Accuracy of quadrat sampling in studying forest reproduction on cut-over areas. Ecology 10(4):374-381. 1929.

U _____
A quarter century of silviculture in the western white pine type. Forestry Kaimin, pp. 36-41, 1930.

L _____
The stocked-quadrat method of sampling reproduction stands. Jour. Forestry 29(5):747-749. 1931.

U _____
Premature germination of forest tree seed during natural storage in duff. Ecology 8(3):311-312. 1932.

U _____
Treatment of understory hemlock in the western white pine type. Jour. Forestry 31(5):578-583. 1933.

L _____
Factors controlling initial establishment of western white pine and associated species. Yale Univ. Sch. Forestry Bul. 41, 149 pp., illus., tables, pl. 1936.

A Haig, I. T., Davis, K. P., and Weidman, R. H.
Natural regeneration in the western white pine type. U. S. Dept. Agr. Tech. Bul. 767, 99 pp., illus. 1941.

A Helmers, Austin E.
Effect of pruning on growth of western white pine. Jour. Forestry 44(9):673-676. 1946.

A _____
How heavily should white pine be pruned? Research Note 41, 5 pp., illus. Mimeo. 1946.

A _____
Fifth year results of direct seeding with western redcedar and Engelmann spruce. Research Note 42, 4 pp. Mimeo. 1946.

A _____
Direct seeding western white pine - fifth-year results. Research Note 44, 5 pp., tables. Mimeo. 1946.

A _____
Pruning wound healing on western white and ponderosa pines. Research Note 45, 6 pp., illus. Mimeo. 1946.

A _____
Results of direct seeding ponderosa pine. Research Note 46, 5 pp. Mimeo. 1946.

A _____
Disintegration of girdled hemlock trees. Station Paper 17. 14 pp., proc. 1948.

A _____
Early results from thinning seed spots. Research Note 58. 5 pp., proc. 1948.

U Kempff, Gerhard
Some results of winter slash disposal. The Timberman, August, 1924. Pulp & Paper of Canada, October 1924.

U _____
Nonindigenous western yellow pine plantations in northern Idaho. Northwest Sci. II(2):54-58. 1928.

U Kitchin, Paul C.
Preliminary report on chemical weed control in coniferous nurseries. Jour. Forestry 18(2):157-159. 1920.

U Larsen, J. A., and Smith, R. J.
Concerning seed spots. Forestry Quarterly, vol. 11, p. 67. 1913.

U Larsen, J. A.
Seed testing with the Jacobsen germinating apparatus at the Danish seed control station. Forestry Quarterly 14(2):273-276. 1916.

U _____
Comparison of seed testing in sand and in the Jacobsen germinator. Jour. Forestry 16(6):690-695. 1918.

U _____
Some characteristics of seeds of coniferous trees from the Pacific Northwest. The National Nurseryman 30(9):146-149. 1922.

U _____
Reasons for lack of hardwoods in west. The Timberman 23(9):126. 1922.

U _____
Waste land turned into forests. Amer. Scandinavian Rev. Sept. 1924.

U _____
Some factors affecting reproduction after logging in northern Idaho. Jour. Agr. Res. 28(11):1149-1157. 1924.

U _____
Trend of silviculture development in Germany. Jour. Forestry 22(5):506-512. 1924.

U _____ and Lowdermilk, W. C.
Slash disposal in pine forests of Idaho. West Coast Lumberman 47(553):50, 59-63, 75. 1924.

L _____ and _____
Slash disposal in western white pine forests in Idaho. U. S. Dept. Agr. Cir. 292, 20 pp., illus. 1924.

U _____
Methods of stimulating germination of western white pine seed. Jour. Agr. Res. 31(9):889. 1925.

U _____
Natural reproduction after forest fires in northern Idaho. Jour. Agr. Res. 31(12):1177-1197. 1925.

A LeBarron, Russell K.
Discussion of lodgepole pine cutting methods. 13 pp., proc. 1947.

U _____
Cutting lodgepole pine in the northern Rocky Mountains. Proc. Soc. Amer. Foresters Meeting, Minneapolis, 1947. pp. 399-403. 1948.

A LeBarron, Russell K.
Review of published information on the larch--Douglas-fir type. Station Paper 15. 15 pp., proc. 1948.

A _____
Slash disposal by spot burning and dozer piling in ponderosa pine type. Paper presented at meeting of Northern Rocky Mountain Forest and Range Experiment Station Section, S.A.F., Missoula, Montana, March 19, 1948. 9 pp., mimeo. 1948.

L _____
Silvicultural possibilities of fire in northeastern Washington. Unpub. ms., 14 pp., typewritten. Paper presented at meeting of Ecological Society of America, Vancouver, B. C. June 15, 1949.

U Lowdermilk, W. C.
Factors affecting reproduction of Engelmann spruce. Jour. Agr. Res. 30(11):995-1009. 1925.

U _____ and Miller, F. G.
The minimum measures in protection and silviculture for maintaining forest lands in a condition of continuous production - western white pine type. 11 pp., mimeo. 1922.

U Marshall, Robert
The growth of hemlock before and after release from suppression. Harvard Forest Bul. 11, 43 pp. 1927.

U _____
The girdled pine still lives. American Forests & Forest Life, Jan. 1929, p. 29.

A McKeever, D. G.
Direct seeding of western white pine using poisons for rodent control. Research Note 18, 5 pp., tables. Mimeo. 1942.

A _____
Results of direct seeding of ponderosa pine in the northern Rocky Mountain region. Research Note 20, 6 pp., tables. Mimeo. 1942.

A _____
Results of direct seeding of western redcedar and Engelmann spruce in the northern Rocky Mountain region. Research Note 21, 9 pp., tables. Mimeo. 1942.

U Polk, R. Brooks, and Boe, Kenneth N.
Succession of trees in cut-over larch--Douglas-fir stands in western Montana. Proc. Montana Acad. Sci., vol. 10, pp. 31-37. 1950.

U Rapraeger, E. F.
Possibilities of partial cutting in young western white pine. Station Paper 2, 19 pp. Mimeo. 1940.

A Roe, Arthur L.
A preliminary classification of tree vigor for western larch and Douglas-fir trees in western Montana. Research Note 66. 6 pp., proc. 1948.

A _____ and Squillace, A. E.
Can we induce prompt regeneration in selectively-cut ponderosa pine stands? Research Note 81. 7 pp., proc. March 1950.

U Rogers, E. C.
Studies in retarded germination. Jour. Forestry 19(1):51-57. 1921.

A Schopmeyer, C. S.
Brushfield reforestation in the St. Joe National Forest, Idaho. Applied Forestry Note 83, 3 pp., illus. Mimeo. 1938.

A _____
Direct seeding in the western white pine type. Applied Forestry Notes 90, 10 pp., illus., tables. Mimeo. 1939.

U _____
Survival in forest plantations in the northern Rocky Mountain region. Jour. Forestry 38(1):16-24. 1939.

U _____
Successful forestation by direct seeding using poisons for rodent control. Research Note 1, 5 pp., illus., tables. Mimeo. 1940.

U _____
The use of western redcedar in reforestation by direct seeding. Research Note 5, 4 pp. Mimeo. 1940.

U _____
Second-year results of direct-seeding experiments in western white pine type using screens for rodent control. Research Note 6, 7 pp., tables. Mimeo. 1940.

A _____ and Helmers, A. E.
Seeding as a means of reforestation in the northern Rocky Mountain region. U. S. Dept. Agr. Cir. 772, 31 pp., illus. December 1947.

A Squillace, A. E., and Adams, Lowell
Dispersal and survival of seed in a partially-cut ponderosa pine stand. Research Note 79. 4 pp., proc. March 1950.

U Wahlenberg, W. G.
Fall sowing and delayed germination of western white pine seed. Jour. Agr. Res. 28(11):1127. 1924.

U _____
Circumventing delayed germination in the nursery. Jour. Forestry 22:574-575. 1924.

U _____
Forestation research in Montana and North Idaho. Jour. Forestry 23(7-8):589-599. 1925.

U _____
Stimulating the growth of Engelmann spruce in the nursery. Unpub. ms., 53 pp., illus., tables, plates. 1925.

U _____
Reforestation by seed sowing in the northern Rocky Mountains. Jour. Agr. Res. 30(7):637. 1925.

L _____
Sowing and planting season for western yellow pine. Jour. Agr. Res. 30(3):245. 1925.

U _____
How to establish a windbreak in Montana. The Montana Farmer 13(22). July 15, 1926.

L _____
Age classes of western white pine planting stock in relation to aspect of planting site in northern Idaho. Jour. Agr. Res. 33(7):611. 1926.

U _____
Western larch nursery practice. Jour. Agr. Res. 33(3):293. 1926.

U _____
Planting pine among brush. The Timberman 28(5):58-59. 1927.

U _____
Experiments with classes of stock suitable for forest planting in the northern Rocky Mountains. Jour. Agr. Res. 36(12):977. 1928.

U _____
Modification of western yellow pine root systems by fertilizing the soil at different depths in the nursery. Jour. Agr. Res. 39(2):137. 1929.

U Wahlenberg, W. G.
Relation of quantity of seed sown and density of seedlings to the development and survival of forest planting stock. Jour. Agr. Res. 38(4):219-227. 1929.

U _____
Effect of ceanothus brush on western yellow pine plantations in the northern Rocky Mountains. Jour. Agr. Res. 41(8):601-612. 1930.

U _____
Experiments in the use of fertilizers in growing forest planting material at the Savenac Nursery. U. S. Dept. Agr. Cir. 125. 1930.

L _____
Investigations in weed control by zinc sulphate and other chemicals at the Savenac Forest Nursery. U. S. Dept. Agr. Tech. Bul. 156, 35 pp., illus. 1930.

U Weidman, R. H.
Desirable forestry practice for western yellow pine in the Northwest. Mimeo. 58 pp. 1924.

U _____
Public requirements for continuous forest production in the northern yellow pine region. Mimeo. 57 pp. 1924.

U _____
Some principles to guide the marking axe in western yellow pine in the northwest. The Idaho Forester, vol. VIII, p. 8. 1926.

U _____
Prolific seed production in the forests of northern Idaho. Northwest Sci. 1(4):79-80. 1927.

L _____
Timber growing and logging practice in ponderosa pine in the Northwest. U. S. Dept. Agr. Tech. Bul. 511, 91 pp., illus. 1936.

U _____
Evidences of racial influence in a 25-year test of ponderosa pine. Jour. Agr. Res. 59:855-888. 1939.

U Wellner, C. A.
Effects of cleaning in a reproduction stand of western white pine and associates. Research Note 4, 4 pp., illus. Mimeo. 1940.

A Wellner, C. A.
Relationships between three measures of stocking in natural reproduction of the western white pine type. Jour. Forestry 38(8):636-638. 1940.

A _____
Improving composition in young western white pine stands. Research Note 43, 6 pp., tables. Mimeo. 1946.

A _____
Recent trends in silvicultural practice on the national forests in the western white pine type. Jour. Forestry 44(11):942-944. 1946.

U Zon, Raphael
Seed production of western white pine. U. S. Dept. Agr. Bul. 210, 15 pp. 1915.

3 - FOREST PROTECTION

U Adams, Lowell
The effects on mammals of DDT used in forest insect control in the northern Rocky Mountains. Research Note 56, 3 pp. Mimeo. November 1947.

L _____
Mist of death - a report on DDT. Outdoor Montana, 3(3):7,20-21. June-July 1948.

A _____
The effects of deer on conifer reproduction in northwestern Montana. Jour. Forestry 47(11):909-913. 1949.

L _____ , Hanavan, Mitchell G., Hosley, Neil W., and Johnston, David W.
The effects on fish, birds and mammals of DDT used in the control of forest insects in Idaho and Wyoming. Jour. Wildlife Management 13(3):245-254. 1949.

A _____
Consumption of ponderosa pine seed by small mammals. Research Note 80. 4 pp., proc. March 1950.

U Barrows, J. S.
Bombing fires with water. Proc. 38th Annual Meeting, Western Forestry and Conservation Association. December 1947.

U _____ and Keilman, M. H.
Tactical evaluation of aerial bombing of forest fires. Air Proving Ground Command. Project No. 1-47-3. November 1947.

L Davis, Kenneth P. and Moss, Virgil D.
Blister rust control in the management of western white pine. Station Paper 3, 34 pp., illus. Processed. 1940.

L Ehrlich, John
A preliminary study of root diseases in western white pine. Station Paper 1, 10 pp., illus. Mimeo. 1939.

A Evenden, J. C.
An instance of insect damage resulting from zero-margin selective cutting of ponderosa pine. Applied Forestry Note 84, 4 pp., tables. Mimeo. 1938.

U Gisborne, H. T.
Lightning storms in relation to forest fires in District 1 - results of study in 1922. Unpub. ms., 16 pp. 1923.

U _____
Objectives and results of fire studies in northern Idaho. Unpub. ms. 17 pp. 1923.

U _____
A million dollars a year for smoke. The Timberman 24(7):33-34. 1923.

U _____
The importance of duff moisture content in the forest fire problem. Jour. Forestry 21:807-809. 1923.

U _____
Moisture content of fuels as an index of fire danger. Lumber World Rev. No. 45, p. 44. 1923.

U _____
Lightning fires and storms in the northern Rocky Mountains. The Timberman, April 1924.

U _____
Lightning in relation to forest fires in the Inland Empire. Unpub. ms. 5 pp. 1924.

U _____
Use of moisture content of duff as a measure of fire danger. The Timberman, April 1924.

U Gisborne, H. T.
Save the forests, protect the highways. Highway Magazine. Aug. 1924.

U _____
Review: The role of fire in the California Pine Forest. (By S. B. Show and E. I. Kotok.) The Timberman. March 1925.

U _____
Cyclic fluctuations of rainfall in the northern Rocky Mountains. Bul. Amer. Met. Society, August-September, pp. 131-132. 1925.

U _____
Forests, hunting and fishing from the economic viewpoint in Belgium. (By L. Drumas.) Jour. Forestry, vol. 23, pp. 670-676. 1925.

U _____
Another effect of high relative humidity on forest fires. Service Bulletin. June 1925.

U _____
Some rainfall cycles for the west slope of the northern Rocky Mountains. Unpub. ms. 12 pp. April 10, 1925.

U _____
Using weather forecasts for predicting forest fire danger. Monthly Weather Rev. 53(2):58-60. 1925.

U _____
The trend of forest fire research in northern Idaho. Idaho Forester, vol. 8, p. 16. 1926.

U _____
Meteorology and forest fire protection. The Forestry Kaimin, p. 29. 1926.

U _____
More forest inventions. Amer. Forest & Forest Life 32(390):345. 1926.

U _____
Forest fire - a mother of invention. Amer. Forest & Forest Life 32(389):265. 1926.

L _____
Lightning and forest fires in the northern Rocky Mountain region. Monthly Weather Rev. 54(7):281-286. 1926.

U _____
Progress report on behavior of fires. Unpub. ms., 19 pp. Feb. 3, 1927.

U Gisborne, H. T.
The importance of lightning as a cause of forest fires. Unpub. ms. 9 pp. 1927.

U _____
The field of forest fire research. Unpub. ms. 10 pp. Jan. 8, 1927.

U _____
Meteorological factors in the Quartz Creek forest fire. Monthly Weather Rev. 55(2):56. 1927.

U _____
An investigation of lightning storms in the northern Rocky Mountain region. Northwest Sci. 1(4):72-73. 1927.

U _____
The objectives of forest fire weather research. Jour. Forestry, vol. 25, pp. 452-456. 1927.

U _____
Protection costs and damages affected by brush disposal method. Unpub. ms. 3 pp. 1928.

U _____
Forest forces study lightning as fire menace. New York Herald-Tribune. June 24, 1928.

U _____
Forest fires in Belgium during 1926. Jour. Forestry, vol. 26, p. 118. 1928.

L _____
Measuring forest fire danger in northern Idaho. U. S. Dept. Agr. Misc. Pub. 29, 64 pp. 1928.

U _____
Lightning from clear sky. Monthly Weather Rev. 56(3):108. 1928.

U _____
Early and modern American fire studies. Jour. Forestry, vol. 26, pp. 123-129. 1928.

U _____
Brush disposal. The Timberman 30(3):194. 1929.

U _____
The complicated controls of fire danger. Jour. Forestry, vol. 27, pp. 311-312. 1929.

U Gisborne, H. T.
A forest fire explosion. The Frontier, vol. X, Nov. 1929. Republished in Western Prose and Poetry, pp. 423-428, Harper & Bros., 1932. Republished in Golden West in Story and Verse, pp. 423-428, Harper & Bros., 1933. Republished in Montana Margins, pp. 99-104, Yale Univ. Press, 1946.

U _____
How dangerous are dry lightning storms? Northwest Sci. 4(1):20-22. 1930.

U _____
Forest fire research. Sci. Monthly, vol. 31, pp. 76-80. 1930.

U _____
Report on spark arrester test. Mimeo. 3 pp. 1931.

U _____
Phases of fire problem. Amer. Lumberman. November 1931.

U _____
A five-year record of lightning storms and forest fires. Monthly Wea. Rev. 59(4):139-150. 1931.

U _____
Review: Forest research in Switzerland. Jour. Forestry, vol. 29, p. 112. 1931.

U _____
Not to be overlooked. West Coast Lumberman, 58(3):70. 1931.

U _____
Lightning on the lookouts. Amer. Forests, 37(9):515, Sept. 1931. Republished in Reader's Digest, pp. 559-561, Oct. 1931. Republished in Rangers of the Shield, Amer. For. Assoc., pp. 161-172, 1934.

U _____
The character of the 1931 fire season in the northern Rocky Mountain region. Mimeo. 4 pp. 1931.

U _____
The scheme of forest fire control. Jour. Forestry, 29(7):1077. 1931.

U _____
Periodic fluctuations of rainfall in the Inland Empire. Unpub. ms. 9 pp. December 1931.

U _____ and Hornby, L. G.
Forest fire control objectives and practices in the northern Rocky Mountain region, based on the forest fire reports for the national forests, 1921-1930, inclusive. Unpub. ms. 122 pp. 1931.

U Gisborne, H. T.
Lightning - "the Devil's torch." Spokesman-Review, Aug. 1 and 13, 1933.

U _____
"Mrs. Robot" is on duty in nearby forests. Spokesman-Review, Aug. 1 and 13, 1933.

U _____
Deadwood lying on duff drier than air. Jour. For. 31(8):979-980. 1933.

U _____
Lightning and forest fires. Pulp & Paper, Canada, 34(6):327-329. 1933.

U _____
The wood cylinder method of measuring forest inflammability. Jour. Forestry 31(6):683-89. Illus. 1933.

U _____
Inexpensive wind gauge. Service Bulletin 17(25):3-4. 1933.

U _____
Memorandum concerning spot fires. Unpub. ms. 4 pp. 1934.

U _____
Measuring forest fire danger. Quarterly of National Fire Protection Assoc. April 1934.

L _____
Paired minimum temperatures as indices of fair or foul weather. Applied Forestry Note 65, 2 pp. Mimeo. July 1934.

U _____
The character of the 1935 fire season in Region One. Applied Forestry Note 73, 4 pp. Mimeo. 1935.

U _____
Shaded fire breaks. Jour. Forestry 33:86-87. 1935.

U _____
The rating of forest fire danger. Applied Forestry Notes 67, 3 pp. Mimeo. 1935.

U _____
When a "normal" is not normal. Bul. Amer. Met. Soc., 16(6 & 7) June-July 1935.

U _____
Where is the forest meteorologist? The Michigan Forester, vol. XVI. June 1935.

U Gisborne, H. T.
Recent progress in forest fire research. Unpub. ms. Nov. 19, 1936.

A _____
The principles of measuring forest fire danger. Jour. Forestry 34(8):786-793. 1936.

L _____
Measuring fire weather and forest inflammability. U. S. Dept. Agr. Cir. 398, 59 pp., illus., tables. 1936.

A _____ and Kachin, T.
The technique of duff hygrometer calibration. Jour. Forestry 35(8):736. 1937.

U _____
A lesson for fire control. Service Bulletin, 22(4):3. 1938.

U _____
New England hurricane blows fuel types to forefront. Service Bulletin, 22(24):2. 1938.

U _____
Determination of normal fire danger. The Ames Forester, vol. 29: 27-31. 1938.

A _____
The northern Rocky Mountain fire danger meter No. 5. Applied Forestry Note 85, 3 pp. Mimeo. 1938.

A _____
The character of the 1937 fire season in Region One. Applied Forestry Note 82, 3 pp., table. Mimeo. 1938.

A _____
The character of the 1938 fire season in Region One. Applied Forestry Note 87, 3 pp., table. Mimeo. 1938

U _____
Short-term forest workers. Fire Control Notes, 3(3):27-30. 1939.

L _____
Forest pyrology. Sci. Monthly, 49:21-30. 1939.

A _____
Character of the 1939 fire season in Region One. Applied Forestry Note 93, 3 pp., table. Mimeo. 1939.

U _____
Fire danger meter design. The Utah Juniper, vol. X, pp. 5-11. 1939.

U Gisborne, H. T.
Hornby's principles of fire control planning. Jour. Forestry 37(4):292-296. 1939.

L _____
Comparison of intensive versus limited forest fire control action. Research Note 10, 5 pp. Mimeo. 1940.

U _____
The new trend in fire control. Michigan Forester, pp. 16-18, 57. 1941.

A _____
How the wind blows in the forest of northern Idaho. 14 pp. Mult. 1941.

U _____
Character of the 1940 fire season in Region One. Research Note 13, 3 pp. Mimeo. 1941.

L _____
Mileposts of progress in fire control and fire research. Jour. Forestry 40(8):597-606. Fire Control Notes 6(2):47-63. Pulp & Paper of Canada, May, June, July, August, & September. (See mimeo file copies entitled "Review of problems and accomplishments in fire control and fire research. 1941.) 1942.

U _____
New facts on lightning. Research Note 24, 3 pp. Mimeo. 1942.

U _____
Measurements of forest fire danger variables in the northern Rocky Mountain region. 15 pp. Mimeo. June 10, 1942.

L _____
Chemical fireproofing of cured grass. Research Note 28, 2pp. Mimeo. 1943.

U _____
Sociological shackles on forestry. The Ames Forester, pp. 23-28. 1943.

A _____
Slash burns well at B.I. 10 to 20. Research Note 35, 2 pp. Mimeo. 1944.

U _____
Critical fire season indicated for 1945 in the northern Rocky Mountain region. Research Note 36, 4 pp. Mimeo. 1945.

L Gisborne, H. T.
Calculating precipitation probabilities. The Timberman, vol. 49, No. 10. August 1948.

U _____
Dry ice to make rain and stop lightning. Proc. 39th Annual Meeting Western Forestry and Conservation Association, Victoria, B. C. December 1948.

A _____
Minimum rate fire insurance. Research Note 72, 4 pp. Processed. April 1949.

U _____
Fundamentals of fire behavior. Fire Control Notes 9, pp. 13-24. January 1948.

U _____
Tests show cigar and cigarette stubs come down hot. Fire Control Notes 11(2):28-29. April 1950.

U Hayes, G. Lloyd
Don't let a "normal" deceive you. Service Bulletin 19(17):4. 1935.

U _____
Variations of some fire danger factors with altitude, aspect, and time of day. Applied Forestry Note 80, 8 pp. Mimeo. 1937.

U _____
The moisture content of large sized fuels as an index of intra-seasonal and seasonal fire danger severity. Master of Forestry thesis. Unpub. ms. 83 pp. 1940.

A _____
Influence of altitude and aspect on daily variation in factors of forest-fire danger. U. S. Dept. of Agr. Cir. 591, 39 pp., illus. 1941.

U _____
A discussion of hygrographs. Research Note 25, 6 pp., 2 tables. Mimeo. 1942.

U _____
Differences in fire danger with altitude, aspect, and time of day. Jour. Forestry 40(4):318-323. Illus. April 1942.

U _____
Reliability of the Forest Service type rain gage. Monthly Weather Rev. 70:267-268. 1942.

L _____
A method of measuring rainfall on windy slopes. Monthly Weather Rev. 72(5):111-114. May 1944.

A _____
Where and when to measure forest fire danger. Jour. Forestry 42(10):744-751. 1944.

L Hornby, L. G.
Fuel type mapping in Region One. Jour. Forestry 33(1):67-72. 1935.

U _____
Fuel type mapping - its relation to forest fire control planning. Northwest Sci. 10(3):3-7. 1936.

U _____
Fire control planning in the northern Rocky Mountain region. Progress Report No. 1. 178 pp., illus. Processed. 1936.

U Jemison, George M.
Man-power placement and facilities for fire control. Jour. Forestry 30:626-627. 1932.

U _____
Aerial photograph mapping. Jour. Forestry 30:755-756. 1932.

U _____
Drought not yet broken. Applied Forestry Note 62. Mimeo. 1932.

A _____
Meteorological conditions affecting the Freeman Lake (Idaho) fire. Monthly Weather Review 60(1):1-2. 1932.

A _____
Climatological summary for the Priest River Forest Experiment Station 1912-1931, inclusive. 27 pp. Mimeo. 1932.

U _____
A comparison of the duff hygrometer and 1/2" wood cylinder methods of measuring fuel moisture. Unpub. ms. 12 pp. June 1933.

U _____
The significance of the effect of stand density upon the weather beneath the canopy. Jour. Forestry 32:446-451. 1934.

A _____
Beaufort scale of wind force as adapted for use on forested areas of the northern Rocky Mountains. Jour. Agr. Res. 49(1):77. 1934.

L _____
Influence of weather factors on moisture content of light fuels in forests of the northern Rocky Mountains. Jour. Agr. Res. 51(10):885-906. November 1935.

U Jemison, George M.
The effect of low vegetation on the rate of spread of fire in the northern Rocky Mountain region. Unpub. ms. 80 pp. 1936.

U _____
The character of the 1936 fire season in Region One. Applied Forestry Note 77, 3 pp., illus. Mimeo. 1936.

U _____
Loss of weight of wood due to weathering. Jour. Forestry 35(5):460-462. May 1937.

U Larsen, J. A.
A norwegian forest fire insurance association. Forestry Quarterly 11:525-526. 1913.

U _____
Weather records at lookout stations in northern Idaho. Jour. Forestry 20(3):215-219. Monthly Wea. Rev. 50(1):13-14. 1922.

U _____ and Delavan, C. C.
Relation of climate to forest fires. The Timberman. July, p. 36. 1922.

U _____ and _____
Climate and forest fires in Montana and northern Idaho, 1909 to 1919. Monthly Weather Rev. 50(2):55-68. 1922.

U _____
The smoky trail. Amer. Forests, p. 394. 1923.

U _____
Length and intensity of fire season at different elevations in Idaho. The Idaho Forester. 1924.

U _____
The forest fire season at different elevations in Idaho. Monthly Weather Rev. 53(2):60-63. 1925.

U _____
Fires and forest succession in the Bitterroot Mountains of northern Idaho. Ecology 10(1):67-76. Jan. 1929.

L Lyman, C. K.
Fuel reduction as related to blister rust control and the management of white pine. Office memo., 5 pp. Mimeo. December 1944.

L _____
Principles of fuel reduction for the northern Rocky Mountain region. Progress Report No. 1, 98 pp., illus. Processed. Northwest Sci. 18(2):44-48. 1945.

U Peiffer, A.
Evolution of the fire danger meter. American Forests 56(4): 12-13, 36. April 1950.

A Richards, Leon W.
Effects of certain chemical attributes of vegetation on forest inflammability. Jour. Agr. Res. 60(12):833-838. 1940.

A Roe, Arthur L.
What caused "blight" on Christmas trees in the northern Rockies in 1947? Research Note 65. 5 pp., processed. 1948.

L Schaefer, Vincent J.
The possibilities of modifying lightning storms in the northern Rockies. Station Paper 19. 17 pp., processed. 1949.

L Shallenberger, G. D. and Little, E. M.
Visibility through haze and smoke and a visibility meter. Jour. Optical Soc., pp. 168-176. Illus. 1940.

U Shames, Leo
Measurements of forest fire danger. Science, 88(2287):401-02. 1938.

U Stickel, P. W.
Local application of standard meteorological references. Northwest Sci. 17(4):75-81. Nov. 1943.

L Tebbe, C. L. and Hansen, P. D.
Aerial bombing of forest fires. Proc. progress report. Illus. August 1947.

A University of Idaho, School of Forestry; The Division of Forest Pathology, Bureau of Plant Industry, Soils, and Agricultural Engineering, USDA: and Northern Rocky Mountain Forest and Range Experiment Station of the Forest Service, USDA.
Pole blight - this is how to recognize it. Pamphlet, 6 pp., stenalithed. December 1949.

U Weidman, R. H.
Relation of weather forecasts to the prediction of dangerous forest fire conditions. Monthly Weather Rev. 51(11):563-564. 1923.

L Wellner, C. A.
Blister rust control in relation to white pine silviculture. Idaho Forester, 23: 13-14. 1941.

L _____
Pole blight - a new disease of western white pine. Station Paper 8, 3 pp., illus. Mult. Nov. 1947.

L _____
Forest protection in the silviculture of western white pine forests. Northwest Sci., 21(3):109-112. August 1947.

U _____
New disease threatens western white pine. Jour. Forestry 46:294-95. 1948.

4 - LUMBERING: THE UTILIZATION OF MAJOR FOREST PRODUCTS

U Anderson, I. V.
Stumpage prices since 1912. Mimeo. May 15, 1932. 46 pp. Rev. April 1936, covering 1912-1935. Current tables added annually 1936-1943.

U _____
The predicament of western larch. West Coast Lumberman. 7 pp. May 1928.

A _____
Log damage on gravity chutes. (An analysis of volume and value loss of Idaho white pine logs.) The Timberman, 31(5):38-40, 202-204. 1930.

L _____
Woods and mill utilization in northern Idaho and western Montana. Jour. Forestry 30(6):734-740. 1932.

L _____
Residual wood after logging in the larch--Douglas-fir and lodgepole pine types. 27 pp. Mimeo. January 1932.

A _____
Residual wood after logging in the ponderosa pine region. 25 pp. Mimeo. January 1932.

L _____
Residual wood after logging in the western white pine region. 29 pp. Mimeo. January 1932.

L _____
Does fire protection in ponderosa pine pay? Univ. Montana Forestry Kaimin, pp. 9-13, 61. 1933.

L _____
Breakage losses and cull percent of timber in the Inland Empire. Applied Forestry Note 63, 3 pp., table. 1934.

L _____
Fire-scarred ponderosa pine - what is the loss? The Timberman 36(6):14-15, 26. Illus. 1934.

L _____
An economic tree classification for ponderosa pine. Applied Forestry Note 64, 19 pp. Mimeo. 1934.

L _____
Match plank cut from western white pine trees. A comparison of production costs and selling values by tree sizes when the major product is match plank. The Timberman, 36(6):15-18, 28. 1935.

L Anderson, I. V.
Match plank and commercial lumber from western white pine logs. Applied Forestry Note 72, 3 pp. Mimeo. 1935.

A _____
Memorandum report on a selective logging study of the Kinshella and Sons tie mill operation near Lupfer, Montana. 76 pp. Mimeo and Mult. 1936.

U _____ and S.A.F. Committee
Report on recommendations to improve forest exploitation practices in the Inland Empire. 58 pp. Mimeo. December 1936.

L _____
Railroad ties from small mills. The Timberman 38(1):12-13, 21; 38(2):46-49. 1936.

U _____
Utilization of ties of larch--Douglas-fir forests of northwestern Montana. Cross Tie Bul. 18(2):4-9. 1937.

U _____
Bucking with power saw on tractor landing. Typewritten. 5 pp. June 15, 1938. Excerpts in The Timberman 39(10):25-26. 1938.

U _____
A handy tool for pole road construction. The Timberman 39(4):34,36. 1938.

U _____
Review of "Results and application of a logging and milling study in the western white pine type of northern Idaho" by E. F. Rapraeger. Univ. Idaho Bul. 33(16):1-55. Jour. Forestry 37(6):505. 1939.

A _____
Grading of logs and trees as a mean of measuring quality. Mimeo. 23 pp. April 1939.

A _____
The farm woodlot, a source of permanent income if handled wisely. Montana State Univ. Bul. 367, 15 pp. June 1939.

L _____
Laminated wood and what it means to Montana. Mimeo. 11 pp. May 1946.

A _____ and Duncan, George
Power saw developments in the northern Rocky Mountain region. The Timberman, 39(3):12-15. 1938.

A _____
The merits of lodgepole pine poles. Station Paper 10, 6 pp. Mimeo. 1947.

A _____
Trends in the utilization of pole species and their effect on forest management. Proc. Soc. Amer. Foresters meeting, Minneapolis. 9 pp. December 1947.

A Anderson, I. V. and Rapraeger, E. F.
The Christmas tree industry. 9 pp. Ditto. January 1939.

L Bradner, M.
Depreciation in river logs. The Timberman 27(3):42,44. 1926.

A _____
Sawmill efficiency not measured by volume of production. The Timberman 28(8):37-40; 28(9):40-42,44; 28(10):42, 44, 46. (Also mimeographed excerpt, 19 pp., May 1936.) 1927.

L _____
Utilization in the sawmill. (An analysis of current practice in band mills of the Inland Empire.) The Timberman 28(11). September 1927.

A _____ and Fullaway, S. V., Jr.
Size of timber, amount of defect--important factors in lumbering. The Timberman, vol. 29(2, 3, 4, & 6) 1928.

A _____ and Anderson, I. V.
Fire-damaged logs - what is the loss? The Timberman 31(7):38-44. 1930.

A Division of Forest Utilization Service
Review of tie specifications and prices in the Montana-Idaho territory. 1 to 7 pp. issued annually or amendments issued as changes occur. Mimeo. 1925 to 1947.

A Klobucher, Frank J.
Trucks-trailers-tractors. Tractor skidding studies in the Inland Empire. The Timberman, 23(9):114-118. 1922.

L Mueller, Lincoln A.
Utilization of the secondary species in the Inland Empire. Jour. Forestry 44(11):861-865. 1946.

U _____
Suitability of Engelmann spruce, western white pine, ponderosa pine, and western larch for the manufacture of veneer and plywood. Unpub. ms. 28 pp., illus. May 1947.

U Rapraeger, E. F.
The effect of tree size on log-making costs for western white pine. Unpub. ms. 22 pp. March 1936.

U _____
Relation of tree size in western white pine to logmaking costs. Applied Forestry Note 74, 3 pp. Mimeo. 1936. Mimeo. 1936.

L _____
Comparative cost of making logs from small and large western white pine trees. West Coast Lumberman, vol. 63, No. 6. 1936.

A Rapraeger, E. F.
The use of Idaho white pine for matches. The Timberman 38(10):22, 26-28; 38(11):26-32. 1937.

A _____
Results and application of a logging and milling study in the western white pine type of northern Idaho. Univ. Idaho, vol. 33, No. 16, 55 pp., illus. July 1938.

U _____
Results of a sawmill study of timber on ME Plot 150 (Bearpaw Creek). Unpub. ms. 38 pp. April 1939.

U _____
Range of log prices in the northern Rocky Mountain region in 1938. The Timberman 40(7):28. 1939.

A _____
Matches from Idaho's white pine. Amer. Forests 45(3):112-114. 1939.

A _____
The Christmas tree industry of western Montana. Forest industries of the Inland Empire, No. 1, 4 pp. Mult. Oct. 10, 1939.

U. _____
Employment per unit of forest product. Research Note 11, 2 pp. Mimeo. Oct. 25, 1940.

U _____
Frontier sawmill. The Timberman 42(7):14-15, 36. 1941.

U _____
Christmas tree industry in Montana. The Timberman 43(2):54-56. 1941.

L _____
Timber and metals. The Timberman 43(4). 1942.

U Rockwell, F. I.
White pine in four northwestern states estimated at 27,970,000,000 feet. West Coast Lumberman 31(360):20-21. 1916.

U Weidman, R. H.
Logging methods that will promote a new crop of timber in the western yellow pine region. The Forest Patrolman 2(5):3-4. 1921.

U Whitney, C. N.
A most remarkable story of pine lumber. West Coast Lumberman, 33(395):73-77. March 1918.

U Winters, R. K.
Need for further wood processing in northern Idaho. Idaho Forester, vol. 24, pp. 7-10. 1942.

5 - FOREST TECHNOLOGY

A Anderson, I. V. and Rapraeger, E. F.
Highlights of the lumber industry. Forest Industries of the Inland Empire, No. 2, 14 pp. Mult. March 15, 1940.

A _____
Specifications for knotty western white pine veneer flitches. Research Note 68. 2 pp. Stenalithed. December 1948.

A _____
Specifications for western larch peeler logs. Research Note 69. 1 p. Stenalithed. December 1948.

L _____
Lodgepole pine - a multiple purpose wood. Talk delivered before the Washington-Idaho-Montana Dry Kiln Club at Libby, Montana. August 1949.

A _____
The condition of western larch poles in the Rock Creek-Baker, Oregon, transmission line of the California Pacific Utilities Company. A report. December 1949.

A Division of Forest Utilization Service
Review of tie specifications and prices in the Montana-Idaho territory. 1 to 7 pp. issued annually or amendments issued as changes occur. Mimeo. 1925-1947.

A _____
Partial list of treating plants and pole and post yards in Montana, northern Idaho, and eastern Washington. Mimeo. 4 pp. 1947.

A _____
Test of hemlock railroad ties completed. Research Note 51. 2 pp. Mimeo. 1947.

U Fullaway, S. V., Jr., and Hubert, E. E.
Air seasoning of lumber in the Inland Empire. The Timberman, March-June. 20 pp. 1925.

L _____
Moisture content of air-seasoned lumber in Inland Empire. The Timberman 27(4):204, 206. 1926.

U _____, Johnson, Herman M., and Hill, C. L.
The air seasoning of western softwood lumber. U. S. Dept. Agr. Bul. 1425, 60 pp., illus. October 1928.

U Gisborne, H. T.
Forest gas. Jour. Forestry, vol. 26, pp. 1063-64. 1928.

U Jemison, George M.
Loss of weight of wood due to weathering. Jour. Forestry 35(5):460-462. 1937.

A Johnson, R. P. A., and Bradner, M. I.
Properties of western larch and their relation to uses of the wood. U. S. Dept. Agr. Tech. Bul. 285, 92 pp., illus. 1932.

L Mueller, Lincoln A.
Suitability of Engelmann spruce, western white pine, ponderosa pine, and western larch for the manufacture of veneer and plywood. 1947.

A _____
Protection of rustic finishes against mold attacks. Research Note 61. 2 pp. Mimeo. April 1948.

A _____
Cottonwood railway tie test completed. Research Note 67. 2 pp. Stenalithed. December 1948.

L Rapraeger, E. F.
Some facts about knots - how they are formed. The Timberman 39(10):16-18. 1938.

A _____
Development of branches and knots in western white pine. Jour. Forestry 37(3):239-245. 1939.

A _____
Characteristics of some important commercial woods which are native to the northern Rocky Mountain region. Mult. 1 p. May 1941.

A _____
Possibilities of wood-pulp production in the northern Rocky Mountain region. Station Paper 4, 43 pp. Mimeo. March 1941.

L Whitney, C. N.
Preservative treatment of fence posts with creosote-petroleum mixtures by the open-tank process. 6 pp. Mimeo. May 24, 1937.

L _____
Report on Northern Pacific test tracks at Plains, Thompson Falls, Missoula, and Lolo, Montana. Proc. Amer. Wood Preservers' Assoc. pp. 18-24. Jan. Cross Tie Bul. 23(3):4-11, 13. 1942.

A Whitney, C. N.
Results to date of studies of the durability of native woods, treated and untreated. Station Paper 5, 54 pp. Mimeo. Rev. January 1946.

A _____ and R-1 Division of Engineering
Instructions for preservative treatment of telephone poles, stubs, and fence posts. Mimeo. 10 pp., 7 plates. Jan. 20, 1939. Rev. May, 1946.

L Wirka, R. M. and Whitney, C. N.
Pitch-treated lodgepole pine poles give short life. Telephone Engineer, January. Elec. Light & Power, February 1930.

6 - FOREST ENGINEERING

A Hodge, William C.
Using air photo methods for timber surveys in the northern Rocky Mountains. Paper presented at Northwest Scientific Assoc. meeting. 7 pp. Duplimat. December 29, 1950.

U Jemison, George M.
Aerial photograph mapping. Jour. Forestry, vol. 30, pp. 755-56. 1932.

7 - FOREST MANAGEMENT

L Anderson, I. V.
Western larch and Douglas-fir volume tables. West Coast Lumberman 58(11):40. 1931.

L _____
Ponderosa pine volume table. West Coast Lumberman 59(5):28. 1932.

A _____
Clean cutting of ponderosa pine versus selective cutting. Jour. Forestry 32(8):886. 1934.

U _____
Why selective cutting of ponderosa pine pays. The Timberman 35(11):12-20. 1934.

L _____
Application of selective logging to a ponderosa pine operation in western Montana. Univ. Montana Bul. 339, 56 pp. June 1934.

L Bloom, C. W.
A comparison of long-log and short-log scale. Applied Forestry Note 68, 3 pp. 1935.

A Boe, Kenneth N.
Adjustment of regional volume tables for local conditions. 7 pp., mimeo. August 15, 1949.

A Bradner, M. and Neff, Philip
Log scale versus lumber tally. (A discussion of overrun and the factors affecting it.) The Timberman 27(9):46-48, 50-52. 1926.

U Cummings, L. J.
A cubic-foot volume alignment chart for western larch. Jour. Forestry 35(4):415-417. 1937.

U _____
Larch--Douglas-fir board-foot yield tables. Applied Forestry Note 78, 5 pp. Mimeo. 1937.

U _____
The relationship of normal to average ponderosa pine stands of north Idaho. Jour. Forestry 39(1):47. 1941.

L Davis, Kenneth P.
Economic aspects of managing western white pine forests. Northwest Sci. 14(2):26-32. 1940.

A _____
Economic management of western white pine forests. U. S. Dept. Agr. Tech. Bul. 830, 77 pp., illus., tables. 1942.

L Division of Forest Economics
Determining tree d.b.h. from stump measurements. Research Note 16, 1 p., 4 charts. Mimeo. and Mult. 1941.

U Division of Silviculture
Second-growth timber worth holding in the northern Rocky Mountain region. U. S. Dept. Agr. Leaflet. 8 pp., illus. 1929.

A _____
Growth after logging of larch--Douglas-fir stands in northwestern Montana. Applied Forestry Note 79, 4 pp. Mimeo. 1937.

A Finch, Thomas L.
Effect of bark growth in measurement of periodic growth of individual trees. Research Note 60, 3 pp. Stenalithed. March 1948.

U Haig, I. T.
The application of normal yield tables. Jour. For. 22(8):902-06. 1924.

U Haig, I. T.
Short cuts in measuring tree heights. Jour. For. 23(11):941-944. 1925.

U _____
Stand tables for second-growth western white pine. Northwest Sci. 5(4):94-98. 1931.

U _____
Comparative timber yields. Jour. Forestry 30(5):575-578. 1932.

L _____
Second-growth yield, stand and volume tables for the western white pine type. U. S. Dept. Agr. Tech. Bul. 323, 68 pp. 1932.

A Huey, Ben M.
The profit in pruning western white and ponderosa pine. Research Note 85. 6 pp., processed. July 1950.

A Kemp, P. D. and Metcalf, M. E.
Tables for approximating volume growth of individual trees. Station Paper 11, 14 pp., tables. Stenalithed. March 1948.

U Larsen, J. A.
Growth of western white pine and associated species in northern Idaho. Jour. Forestry 16(7):839-840. 1918.

U _____
Forest taxation in Sweden. Jour. Forestry 20(3):313-315. 1922.

U _____ and Haig, I. T.
Growth and yield of western white pine. Unpub. ms. 9 pp. 1924.

U Rapraeger, E. F.
What percent of tree volume is in each log of a western (Idaho) white pine? West Coast Lumberman 63(8):30. Applied Forestry Note 75, 2pp. Mimeo. 1936.

A _____
Effect of repeated ground fires upon stumpage returns in western white pine. Jour. Forestry 34(7):715-718. 1936.

A _____
Isn't cubic measure logical? Univ. Washington Forest Club Quarterly 11(2):22-24. March 1938.

A _____
The cubic foot as a national log-scaling standard. Mimeo. Jan. 1940. (Reissued as Station Paper 24, June 1950)

A Roe, Arthur L.
The growth rate of selectively cut ponderosa pine in western Montana. Research Note 55, 4 pp. Mimeo. Sept. 1947.

A _____
What is the right cutting cycle for ponderosa pine? Research Note 57, 3 pp., figs. Mult. Dec. 1947.

U _____
Growth of a selectively-cut stand of ponderosa pine in western Montana. Proc. Montana Academy of Sciences, vol. 7 and 8, pp. 15-23. 1948.

A _____
Thirty-nine years' growth in a cut-over larch stand. Research Note 70. 6 pp. Processed. 1948.

A _____
Response of western larch and Douglas-fir to logging release in western Montana. Northwest Science XXIV(3):99-104. August 1950.

U Timm, John L.
Conversion of standard pole classes to tree diameters in lodgepole pine. Research Note 39, 2 pp. Mimeo. 1946.

A Watt, Richard F.
Approach toward normal stocking in western white pine stands. Northwest Science XXIV(4):149-157. November 1950.

A _____
Growth in understocked and overstocked western white pine stands. Research Note 78, 3 pp. Processed. March 1950.

A Wellner, C. A. and Hansen, Ralph
Volume distribution in ponderosa pine trees. Research Note 17, 2 pp., table. Mimeo. 1941.

A _____ and Roe, A. L.
Management practices for Christmas tree production. Station Paper 9, 21 pp., illus. Mult. Nov. 1947.

U Zach, Lawrence W.
The application of sample log scaling in Region 1. Research Note 31, 10 pp. Mimeo. 1943.

U Anderson, I. V.
The forest problem in western Montana. Jour. For. 30(6):4-13. 1933.

U _____
Lumber production for the northern Rocky Mountain region. Jour. Forestry 37(5):504-506. 1938.

U _____
Pole-timber supplies of the northern and far western states and a look at production problems. American Wood-Preservers' Assoc. annual meeting. Reprint, 9 pp. April 1948.

U Bradner, M., Klobucher, J. F., Girard, J. W., and Fullaway, S.V. Jr.
An analysis of log production in the Inland Empire region. U. S. Dept. Agr. Tech. Bul. 355, 87 pp. 1933.

A Brown, C. W. and Hodge, W. C.
Forest resources of northern Montana. Station Paper 13, 20 pp., illus. Stenalithed. June 1948.

A Cummings, L. J., Varney, Richard M., and Swanson, Robert E.
Taking the guess out of cedar pole inventories. Applied Forestry Note 88, 7 pp. Mimeo. The Timberman 40(2):49-53. 1938.

U _____ and Kemp, P. D.
Forest increment in North Idaho. Forest Survey Release 18, 74 pp. Mult. 1940.

U Davis, Kenneth P.
Relation of the forest industry to soil conservation. Northwest Sci. 12(4):81-86. 1938.

U _____
In defense of controlled burning and similar public forestry undertakings. Jour. Forestry 38(7):592-593. 1940.

L DeJarnette, G. M.
Progress report on the forest resource survey. Applied Forestry Note 70, 6 pp. Mimeo. 1935.

A Dickerman, M. B.
Translation: Aims and problems of Italian Forestry, by Aldo Pavari. 18 pp. Mult. 1947.

A _____
Forest destruction in Greece. Amer. Forests, May, pp. 200-03, 231. 1947.

A Dickerman, M. B.
1946 - a peak year in pole production. Research Note 54, 5 pp. Mimeo. 1947.

A _____
Lumber production gains in the northern Rocky Mountain region. Research Note 53, 4 pp. Mult. 1947.

A _____
Christmas tree shipments drop 24 percent. Research Note 59, 5 pp. Stenalithed. January 1948.

A _____
Forestry in postwar Italy. Journal of Forestry. June 1948.

A _____
Lumber production tops 24-year record in northern region. Research Note 75, 5 pp. Stenalithed. December 1949.

A _____
Pole production down in 1948. Research Note 74, 2 pp. Stenalithed. May 1949.

A _____
Pulpwood production on the increase. Research Note 73, 1 p. Stenalithed. May 1949.

A _____
Pole production gains in 1949. Research Note 83, 2 pp. Stenalithed. May 1950.

A _____
Pulpwood cutting continues to increase. Research Note 84, 1 p. Stenalithed. May 1950.

U _____
Review: Small town renaissance, by R. W. Poston. Jour. Forestry, Dec. 1950, p. 895.

L Division of Forest Economics
Forest statistics for Pend Oreille County, Washington. Forest Survey Release 2, 24 pp. Mult. 1937.

L _____
Definition of the procedure, terms, and classifications. Forest Survey Release 3, 14 pp. Mimeo. 1937.

L _____
Forest statistics for Spokane County, Washington. Forest Survey Release 4, 24 pp. Mimeo. and mult. 1937.

L _____
Forest statistics for Stevens County, Washington. Forest Survey Release 5, 24 pp. Mimeo. and mult. 1937.

L Division of Forest Economics
Forest statistics for Boundary County, Idaho. Forest Survey Release 6, 30 pp. Mimeo. and mult. 1937.

L _____
Forest statistics for Bonner County, Idaho. Forest Survey Release 7, 31 pp. Mimeo. and mult. 1937.

L _____
Forest statistics for Benewah County, Idaho. Forest Survey Release 8, 32 pp. Mimeo. and mult. 1937.

L _____
Forest statistics of Kootenai County, Idaho. Forest Survey Release 9, 35 pp. Mimeo. and mult. 1937.

L _____
Forest statistics of Latah County, Idaho. Forest Survey Release 10, 32 pp. Mimeo. and mult. 1938.

L _____
Forest statistics of Shoshone County, Idaho. Forest Survey Release 11, 32 pp. Mimeo. and mult. 1938.

I. _____
Forest statistics of Nez Perce County, Idaho. Forest Survey Release 12, 28 pp. Mult. 1938.

L _____
Forest statistics of Lewis County, Idaho. Forest Survey Release 13, 26 pp. Mult. 1938.

L _____
Forest statistics of Clearwater County, Idaho. Forest Survey Release 14, 35 pp. Mult. 1938.

L _____
Forest statistics of Idaho County, Idaho. Forest Survey Release 15, 31 pp. Mult. 1938.

A _____
Western redcedar pole resources in north Idaho and northeastern Washington. Forest Survey Release 16, 36 pp. Mult. 1939.

A _____
Northern Idaho's forest problem. Forest Survey Release 19, 24 pp. Mult. 1941.

A Division of Forest Economics
Forest statistics for northern Idaho. Statistical Service 1, 17 pp. Mult. 1941.

A _____
Forest statistics for Lincoln County, Montana. Statistical Service 2, 11 pp. Mult. 1941.

A _____
Forest statistics for Flathead County, Montana. Statistical Service 3, 12 pp. Mult. 1941

A _____
Forest statistics for Lake County, Montana. Statistical Service 4, 13 pp. Mult. 1941.

A _____
Forest statistics for Sanders County, Montana. Statistical Service 5, 13 pp. Mult. 1941.

A _____
Forest statistics for Mineral County, Montana. Statistical Service 6, 15 pp. Mult. 1941.

A _____
Forest statistics for Ravalli County, Montana. Statistical Service 7, 13 pp. Mult. 1941.

A _____
Highlights of the Missoula County forest situation. Statistical Service 8, 15 pp. Mult. 1942.

A _____
Highlights of the forest situation in Lewis & Clark County (west of the Continental Divide). Statistical Service 9, 13 pp. Mult. 1942.

A _____
Highlights of the forest situation in Deerlodge County (west of the Continental Divide). Statistical Service 10, 13 pp. Mult. 1942.

A _____
Highlights of the forest situation in Silver Bow County (west of Continental Divide). Statistical Service 11, 13 pp. Mult. 1942.

A _____
Highlights of the Powell County forest situation. Statistical Service 12, 15 pp. Mult. 1942.

A Division of Forest Economics
Highlights of the Granite County forest situation. Statistical Service 13, 14 pp. Mult. 1942.

A _____
Highlights of the forest situation in western Montana. Statistical Service 14, 19 pp. Mult. 1943.

L _____
Highlights of the forest situation in Chouteau County. Statistical Service 15, 15 pp. Mult. 1943.

L _____
Highlights of the forest situation in Fergus County. Statistical Service 16, 15 pp. Mult. 1943.

L _____
Highlights of the forest situation in Judith Basin County. Statistical Service 17, 15 pp. Mult. 1943.

A _____
Highlights of the forest situation on the national forests of western Montana. Statistical Service 18, 26 pp. Mult. 1944.

A Finch, Thomas L., Hodge, W. C., and Metcalf, M. E.
Forest resources of South Central Montana. Station Paper 23, 19 pp., illus. Mult. April 1950.

A Fullaway, S. V., Jr. and Cunningham, R. N.
The forests and forest industry of Idaho and Montana. West Coast Lumberman. May 1, 1926.

U Gisborne, H. T.
The industrial revolution and forestry. Jour. Forestry 27:347-351. 1929.

U _____
After advertising and mergers - then what? The Timberman 31(10):35. 1930.

A Hodge, W. C., Brown, C. W., and Finch, T. L.
Forest resources of southern Montana. Station Paper 20, 20 pp., illus., mult. May 1949.

A Holmes, P. N.
1945 lumber production in the northern Rocky Mountain region. Research Note 49, 3 pp. Mult. 1947.

A _____ and LeBarron, Russell K.
Montana Christmas tree production highest on record. Research Note 50, 4 pp. Mult. 1947.

A Huey, Ben M.
Pole production continued upward in 1947. Research Note 62, 3 pp. Stenalithed. April 1948.

A _____
Christmas tree shipments increase. Research Note 71, 6 pp. Stenalithed. January 1949.

A _____
Montana Christmas tree shipments high again. Research Note 82, 4 pp. Stenalithed. March 1950.

A _____ and Hutchison, S. Blair
Marketing Montana Christmas trees. Published by School of Forestry, Montana State Univ. Bul. 2. 24 pp. Illus. Dec. 1, 1949.

A Hutchison, S. Blair and Whitney, C. N.
Cutting depletion in the northern Rocky Mountain region including sawlog depletion in southern Idaho. Forest Survey Release 1, 65 pp. Mimeo. and mult. 1936.

U _____
A century of lumbering in northern Idaho. The Timberman, vol. 39, Nos. 10, 11, and 12. 8 pp., illus. 1938.

U _____
The forest situation in Lincoln County, Montana. Forest Survey Release 20, 57 pp., illus. Mult. 1942.

A _____ and Winters, R. K.
Northern Idaho forest resources and industries. U. S. Dept. Agr. Misc. Pub. 508. 75 pp., illus. 1942.

A _____
Comparative marketability of pine and mixed species in the Inland Empire. Research Note 64, 5 pp. Stenalithed. June 1948.

U _____ and Huey, Ben M.
Suggested Montana Douglas-fir Christmas tree standards. Station Paper 18, 13 pp. Stenalithed. January 1949.

A Kemp, Paul D.
Changes in Benewah County forest statistics. Station Paper 6, 23 pp. Stenalithed. July 1947.

A _____ and Pissot, H. J.
Forest resources of Northeast Washington. Station Paper 21, 29 pp. Stenalithed. May 1949.

A _____ and Dickerman, M. B.
Montana forest resource and industry statistics. Station Paper 25, 48 pp., illus. Mult. October 1950.

U Larsen, J. A.
Dust storms of northern Idaho and western Montana. Jour. Forestry 22(5):576-577. Monthly Weather Rev. 52(2):110. 1924.

U LeBarron, Russell K.
The second-growth situation in Idaho and Montana. The Western Forestry & Conservation Assoc., Dec. 13, pp. 11-12. 1946.

A Pissot, H. J. and Peffer, E. F.
Forest resource statistics, Cascade County. Station Paper 12, 22 pp., tables. Stenalithed. April 1948.

U Rapraeger, E. F.
Results of sawmill study made at J. Neils Lumber Company, Libby, Montana, in 1937. Unpub. ms., 24 pp. March 30, 1938.

U _____
Christmas tree production in western Montana, 1939. Research Note 2, 3 pp. Mimeo. 1940.

U _____
Christmas tree production in western Montana in 1940. Research Note 12, 2 pp. Mimeo. 1941.

L Timm, J. L.
Christmas tree production in western Montana in 1943. Research Note 34, 2 pp. Mimeo. 1944.

L _____
Christmas tree production in western Montana in 1944. Research Note 37, 2 pp. Mimeo. 1945.

L _____
Christmas tree production in western Montana in 1945. Research Note 40, 2 pp. Mimeo. 1946.

U Weidman, R. H.
Establishment and progress of the Priest River arboretum, 1931 to 1936. Unpub. ms., 22 pp., tables, plates. 1937.

U Whitney, C. N.
Economic use of the forests of Montana. State of Montana Fifth Biennial Report of the State Forester, 1917-18.

U _____ and Hutchison, S. Blair
Ties in the northern Rocky Mountain region. Cross Tie Bul. 21(4):6, 16-17. April 1940.

A _____ and _____
Consumption of timber products in the northern Rocky Mountain region. Forest Survey Release 17, 71 pp. Mult. 1940.

U Whitney, C. N.
Christmas tree production in western Montana in 1941. Research Note 19, 2 pp. Mimeo. 1942.

A _____
Christmas tree production in western Montana in 1942. Research Note 30, 2 pp. Mimeo. 1943.

U Winters, R. K.
The American Forest Survey. Univ. Washington Forest Club Quarterly 14(2):14-20. 1941.

A Zach, Lawrence W. and Hutchison, S. Blair
The forest situation in Ravalli County, Montana. Forest Survey Release 21, 48 pp., illus. Mult. 1943.

9 - RANGE MANAGEMENT

L Collins, R. W. and Hurtt, Leon C.
A method for measuring utilization of bluestem wheatgrass on experimental range pastures. Ecology, 24(1):122-125. 1943.

A Division of Range Research
The Northern Great Plains Research Center, its work and aims. Misc. Pub. 1. 10 pp. Processed. May 1950.

L Ellison, Lincoln and Woolfolk, E. J.
Effects of drought on vegetation near Miles City, Montana. Ecology 18(3):329-336. 1937.

L _____
A comparison of methods of quadratting short-grass vegetation. Jour. Agr. Res. 64(10):595-614. 1942.

L Evanko, A. B.
There's many an IF in burning sagebrush. Montana Farmer-Stockman, June 15, p. 8. 1949.

A _____
A tin can infiltrometer with improvised baffle. Research Note 76, 2 pp., illus. Processed. February 1950.

L Friedrich, C. Allan
Reseeding abandoned farm lands to crested wheatgrass will increase range capacity. Montana Farmer, October 1943.

L _____
Killing cheatgrass. Montana Farmer, April 1, 1944.

U Friedrich, C. Allan
Reseeding abandoned farm lands to crested wheatgrass will increase range capacity. Research Note 33, 5 pp. Mimeo. 1944.

L _____
Seeding crested wheatgrass on cheatgrass land. Research Note 38, 4 pp. Mimeo. 1945.

L _____
Seeding crested wheatgrass on cheatgrass land. Montana Farmer, March 1, 1945.

L _____
Seeding crested wheatgrass on cheatgrass land. Montana Stockgrower, October 15, 1945.

A _____
Seeding grass by airplane on western Montana's burned-over timberlands. Research Note 52, 5 pp., illus. Mimeo. 1947.

L _____
A guide to range reseeding on and near the national forests of Montana. Station Paper 7, 38 pp., illus. Mimeo. October 1947.

L Holscher, C. E.
Controlling the prickly pear. Western Livestock Jour., June 15, 1944.

L _____
Controlling the prickly pear. Montana Stockgrower, October 15,1945.

L _____
The effects of clipping bluestem wheatgrass and blue grama at different heights and different frequencies. Ecology 26(2):148-156. 1945.

L Hurtt, Leon C.
Range management and beef production. Montana Farmer, May 15, 1923.

L _____
Land values and cattle production costs. American Cattle Producer, March, pp. 8-9. 1923.

L _____
How big is a profitable ranch? Montana Farmer, March 1, 1934.

L _____
Lowering production costs on Montana ranges. Montana Farmer, September 1934.

L _____
Regrassing of dry farms in Montana. American Hereford Jour. December 15, pp. 34-35. 1934.

A Hurtt, Leon C.
Overgrazing reduces cattle gains and increases production costs. Applied Forestry Note 66, 4 pp. Mimeo. 1934.

L _____
Regrassing Montana's prairies. Montana Farmer, Sept. 1, p. 18. 1935.

L _____
Production costs increased by overgrazing. The Cattleman, 22(4):21-22. 1935.

L _____
Overgrazing increases production costs. American Hereford Journal, September 1, 1935.

L _____
Regrassing "upside down" range lands. Montana Woolgrowers News Letter, January 1, 1935.

A _____
Regrassing Montana dry farms. Applied Forestry Note 69, 4 pp. Mimeo. 1935.

A _____
Cattle production costs are increased by overgrazing. Applied Forestry Note 71, 5 pp. Mimeo. 1935.

L _____
Grazing too early undermines range welfare. Montana Farmer, March 15, p. 6. 1937.

L _____
Cheatgrass range for horses. Montana Farmer, Feb. 1, pp. 5-6. 1938.

L _____
Spineless cactus winterkills in Montana. Jour. Amer. Soc. of Agron., 30(4):356-357. 1938.

U _____
Downy brome (cheatgrass) range for horses. Applied Forestry Note 89, 4 pp. Mimeo. 1939.

L _____
Overgrazing increases production costs by reducing number and weight of range calves. Applied Forestry Note 92, 2 pp. Mimeo. 1939.

L _____
Overgrazing increases production costs by reducing number and weight of range calves. The Cattleman, October, p. 52. 1939.

L Hurtt, Leon C.
Overgrazing increases production costs by reducing number and weight of range calves. Amer. Cattle Producer, December 1939.

L _____
Cheatgrass not all evil. Amer. Hereford Jour., October 15. 1939.

A _____ and Woolfolk, E. J.
Range calf production as affected by grazing intensity. Research Note 9, 5 pp. Mimeo. 1940.

L _____ and _____
Range production and grazing intensity. The Cattleman, October, pp. 109-110. 1940.

L _____ and _____
Penalty from heavy grazing (higher calf production costs and reduced returns result as range deteriorates). American Hereford Jour., December 1, p. 21, 1940.

L _____ and _____
Range production and grazing intensity. Montana Stockgrower, January 15, 1941.

L _____
Restocking for Northern Great Plains ranges. Montana Stockgrower, August 15, pp. 5-7, 1941.

L _____
Increased beef production through conservative stocking on Northern Great Plains ranges. Western Livestock Jour., June 15, 1942.

A _____
Cattle production increased on Northern Great Plains ranges under conservative stocking. Research Note 22, 7 pp. Mimeo. 1942.

L _____
Increased beef production through conservative stocking on Northern Great Plains ranges. Montana Stockgrower, Sept. 1942.

L _____
Crested wheatgrass range builds beef. Amer. Hereford Jour. Oct. 15, 1942.

A _____
Earlier marketing of range cows; is this a desirable range management practice? Research Note 26, 6 pp. Mimeo. 1942.

L _____
Earlier marketing of range cows; is this a desirable range management practice? The Cattleman, November, pp. 49-50, 1942.

L Hurtt, Leon C.
Earlier marketing of range cows; is this a desirable range management practice? Western Livestock Jour., September 1942.

L _____
Crested wheatgrass range builds beef. Montana Stockgrower, January 15, 1943.

L _____
Montana stockmen worried about feed reserves. Western Livestock Jour., April 15, 1943.

U _____
Consider the cows when buying bulls. Amer. Hereford Jour. 33(17):48-52. 1943.

L _____
Wisdom of early marketing indicated. Amer. Hereford Jour., September 1, 1943.

L _____
Penalties of heavy range use. Amer. Hereford Jour. July 1, 1945.

L _____
For a better range management. U. S. Dept. Yearbook of Agriculture, pp. 486-491. 1948.

L _____
The problem of the plains. The Hereford Journal. January 1, 1948.

L _____
The types of plains vegetation. U. S. Dept. Yearbook of Agriculture, pp. 484-486. 1948.

L Kennedy, Fred H.
Range cattle in eastern Montana consumed abnormal amounts of salt during the 1934 drought. Amer. Hereford Jour. December 15, 1935.

A Meik, E. E.
A cost-benefit analysis of seeding abandoned farm land to crested wheatgrass by the preparatory crop method. Jour. of Range Management, 3(3):190-197. July 1950.

U Peterson, Roald A.
Manual for identifying soils from aerial photographs. Book review. Ecology 30(3):401-402. July 1949.

U _____
Birds of the West. Book review. Scientific Monthly LXXI(4):282 October 1950.

U Short, L. R.
Reseeding to increase the yield of Montana range lands. Farmers' Bul. 1924. February 1943.

L Weydemeyer, Winton, Swan, K. D., and Rapraeger, E. F.
List of the birds of western Montana. Field Notes on Wildlife, U. S. Forest Service. 14 pp. Mimeo. March 1940.

U Woolfolk, E. J.
Better production from short-grass ranges through conservative sheep grazing. Research Note 27, 5 pp. Mimeo. 1942.

I _____
Better production from short-grass ranges through conservative sheep grazing. The National Wool Grower, November 1942.

L _____
Salt bonemeal mixture used in summer months by breeding cows on short-grass ranges. Western Livestock Jour., June 15, 1943.

A _____
Salt bonemeal mixtures used by breeding cows on shortgrass ranges during four summer and three winter seasons. Research Note 32, 6 pp. Mimeo. 1944.

L _____
Good salting practice highly important. Amer. Hereford Jour. October 1, 1944.

I _____
Important Montana range plants, bluestem wheatgrass (Agropyron smithii). Montana Stockgrower. November 15, 1944.

L _____
Important Montana range plants, Blue grama grass (Bouteloua gracilis). Montana Stockgrower. December 15, 1944.

L _____
Important Montana range plants, Buffalo grass (Buchloe dactyloides). Montana Stockgrower, January 15, 1945.

L _____
Important Montana range plants, Needleandthread grass (Stipa comata). Montana Stockgrower. February 15, 1945.

L _____
Important Montana range plants, Sandberg bluegrass (Poa secunda). Montana Stockgrower. March 15, 1945.

L _____
Important Montana range plants, threadleaf sedge (Carex filifolia). Montana Stockgrower. May 15, 1945.

L Woolfolk, E. J.
Important Montana range plants, fringed sagebrush (Artemisia frigida). Montana Stockgrower. June 15, 1945.

L _____
Learn to identify this new weed. Montana Farmer. October 15, 1945.

L _____
Crested wheatgrass gives good returns under heavy grazing. Montana Farmer. April 15, 1945.

U _____
Some observations of lark buntings and their nests in eastern Montana. The Condor 47(3):128. May-June 1945.

U _____
Australian birds - birds of the Antipodes. Book review. The Scientific Monthly vol. LXVII, No. 2. August 1948.

U _____
Practical handbook - birds of Maloepia. The Scientific Monthly, vol. LXVI, No. 2. A book review. February 1948.

L _____, Costello, D. F., and Allred, B. W.
The major range types. Yearbook of Agr. 1948.

U _____
Birds of Concord. Book review. Scientific Monthly LXIX(4)275. October 1949.

U _____
Flight into sunshine. Book review. Scientific Monthly 68(3):215. March 1949.

L _____
Sagebrush isn't all bad - removal or killing requires careful planning. Montana Farmer-Stockman. July 15, 1949.

A _____
Stocking northern Great Plains sheep range for sustained high production. U. S. Dept. of Agr. Cir. 804, 38 pp. illus. April 1949.

A _____, and Knapp, Bradford, Jr.
Weight and gain of range calves as affected by rate of stocking. Montana State College Agricultural Experiment Station Bul. 463, 26 pp. August 1949.

10 - WATER RESOURCE MANAGEMENT

U Baudendistel, Martin E.
Some forestry aspects of the Department of Agriculture Flood Control Survey of the Missouri River Watershed. Paper presented at meeting of Forestry Section, Northwest Scientific Association, Spokane, Washington. December 1948.

L Division of Flood Control Surveys
Flood control surveys. No. 9 in a series of radio scripts developed for use in "Your natural resources - the lifeblood of western Montana." 4 pp. Mimeo. February 1949.

L _____
Snow. No. 12 in a series of radio scripts developed for use in "Your natural resources - the lifeblood of western Montana." 4 pp. Mimeo. April 1949.

U Helmers, Austin E.
Precipitation measurement on wind-swept slopes. Paper presented at meeting of Forestry Section, Northwest Scientific Association, Spokane, Washington. December 1950.

U Tripp, Norman R. and Trimble, G. R., Jr.
Some effects of fire and cutting on forest soils in the lodgepole pine forests of the northern Rocky Mountains. Jour. Forestry. August 1949.

11 - ASSOCIATED USES

A Adams, Lowell
Observations on deer and hunters in the Fisher River district, Montana. Research Note 48, 4 pp., figs. Mimeo. March 1947.

A _____
A punch-card system suitable for use with small samples in wildlife management and research. Fish and Wildlife Service, Special Scientific Report, Wildlife No. 3, pp. 1-7. 1950.

A Thompson, Kenneth and Adams, Lowell
Use statistics to improve wildlife research. Pittman-Robertson Quarterly 10(4):526-530. 1950.

LIST OF STATION PUBLICATIONS

BY SERIES

	Number	
U	1-a	Germination from seed in the duff in western white pine stands. By J. A. Larsen. 2 pp. Undated.
U	1-b	Marking. By W. C. Lowdermilk. 2 pp. Nov. 1920.
U	1-c	Effect of cutting on site factors. By J. A. Larsen. 2 pp. Dec. 1920.
U	1-d	Does western larch recover? By W. C. Lowdermilk. 1 p. 1920.
U	2.	Volume reserves in forest management. By W. C. Lowdermilk. 2 pp. 1920.
U	3.	Weed eradication. By W. G. Wahlenberg. 2 pp. Jan. 1921.
U	4.	Accelerated growth of western white pine after cutting. Author unknown. 2 pp., 1 table, 1 chart. Feb. 1921.
U	5.	The recovery of western larch. By J. D. Warner, Forest Supervisor, by Remington Ellis, Acting. 2 pp. Feb. 1921.
U	6.	Relative humidity of the atmosphere and its relation to the fire problem. By J. A. Larsen. 4 pp. Feb. 1921.
U	7.	Wind and its relation to forest fires. By J. A. Larsen. 5 pp. Mar. 1921.
U	8.	Status of insect infestations, Coeur d'Alene National Forest. By James C. Evenden. 3 pp. Apr. 1921.
U	9.	Sunshine and air temperature in relation to forest fires. By J. A. Larsen. 6 pp. Undated.
U	10.	Purpose of the Applied Forestry Notes. By W. C. Lowdermilk. 1 p. May 1921.
U	11.	Forest insect control. Need for careful surveillance of white pine stands of Idaho and Montana. By James C. Evenden. 3 pp. May 1921.
U	12.	Seed. By W. C. Lowdermilk. 2 pp. May 1921.
U	13.	The problem of the unmerchantable trees in the white pine stands. By W. C. Lowdermilk. 4 pp. May 1921.

	Number	
U	14.	Chemical weed eradication in forest nurseries. By W. G. Wahlenberg. 2 pp. June 1921.
U	15.	Precipitation in relation to forest fires. By J. A. Larsen. 4 pp. July 1921.
U	16.	Field conference of investigators in silviculture. By W. C. Lowdermilk. 4 pp. July 1921.
U	17.	A unit of area as a unit of restocking. By W. C. Lowdermilk. 3 pp. August 1921.
U	18.	A method of reporting on forest plantations. By D. S. Olson. 4 pp. Sept. 1921.
U	19.	Can timber owners afford to leave the small trees? By James W. Girard. 4 pp. Oct. 1921.
U	20.	Swamper slash piling. By W. C. Lowdermilk. 3 pp. Oct. 1921.
U	21.	"Selective burning" of slash. By W. C. Lowdermilk. 3 pp. Nov. 1921.
U	22.	Germinations of seed in the duff under western white pine stands. By J. A. Larsen. 3 pp. Nov. 1921.
U	23.	Slash disposal combined with logging in the stands of central Montana. By John H. Clack. 2 pp. Mar. 1922.
U	24.	Note on the pathological effects of blazing trees. By James R. Weir. 2 pp. Mar. 1922.
U	25.	Bark beetles and the forest. By James C. Evenden. 3 pp. Apr. 1922.
U	26.	The problem of slash disposal. By H. R. Flint. 3 pp. Apr. 1922.
U	27.	Seed production of lodgepole pine (Pinus contorta, Loudon). By W. C. Lowdermilk. 2 pp. Apr. 1922.
U	28.	Winter slash disposal on the Kaniksu National Forest. By W. C. Lowdermilk. 4 pp. Apr. 1922.
U	29.	Investigations in slash disposal in the western yellow pine type. By James W. Girard & W. C. Lowdermilk. 8 pp. May 1922.

	Number	
U	30.	A plea for the mountain stream. By W. C. Lowdermilk. 4 pp. June 1922.
U	31.	Disposal of slash on slopes. By W. C. Lowdermilk. 7 pp. June 1922.
U	32.	An outline of slash disposal practice in district one. By W. C. Lowdermilk. 5 pp. July 1922.
U	33.	American seed in Norway. By W. C. Lowdermilk. 2 pp. July 1922.
U	34.	Weather records applied to the fire problem. By H. T. Gisborne. 4 pp. Nov. 1922.
U	35.	Intensive management on a demonstration forest. By R. H. Weidman. 3 pp. Dec. 1922.
U	36.	Another thought on slash disposal in western white pine stands. By J. A. Larsen. 2 pp. Jan. 1923.
U	37.	The spruce budworm in northern Idaho. By James C. Evenden. 3 pp. Feb. 1923.
U	38.	A million a year for smoke. What research is doing on the problem. By H. T. Gisborne. 4 pp. Mar. 1923.
U	39.	White pine blister rust in the west. By C. R. Stillinger. 5 pp. Apr. 1923.
U	40.	Forest planting in Montana and northern Idaho. By D. S. Olson. 3 pp. May 1923.
U	41.	Some results of winter slash disposal. By Gerhard Kempff. 3 pp. June 1923.
U	42.	Preliminary results of study of lightning in relation to forest fires. By H. T. Gisborne. 3 pp. July 1923.
U	43.	The results of sowing in the northern Rocky Mountain region. By W. G. Wahlenberg. 3 pp. Jan. 1924.
U	44.	What forestry steps are practicable in logging western yellow pine in the northwest. By R. H. Weidman. 5 pp. Feb. 1924.
U	45.	Stimulating the growth of Engelmann spruce in the nursery. By W. G. Wahlenberg. 3 pp. Mar. 1924.

Number

U 46. Moisture content of fuels as an index of fire danger. By H. T. Gisborne. 4 pp. Apr. 1924.

U 47. Yellow pine silvicultural practice on the Custer National Forest. By J. O. Thompson. 2 pp. May 1924.

U 48. Growth after cutting on a western yellow pine timber sale area in Montana. By W. W. White. 5 pp. June 1924.

U 49. Preliminary results of the western white pine yield study. By R. H. Weidman. 3 pp. July 1924.

U 50. The work of blister rust control in the northwest. By I. T. Haig. 3 pp. July 1924.

U 51. Regarding limit of visibility. By H. T. Gisborne. 3 pp. Aug. 1924.

U 52. Natural reproduction on single and double burns in northern Idaho. By J. A. Larsen. 3 pp. Sept. 1924.

U 53. Overcoming delayed germination in the nursery. By W. G. Wahlenberg. 2 pp. Oct. 1924.

U 54. Various aspects of the insect problem in the lodgepole pine region. By H. R. Flint. 4 pp. Nov. 1924.

U 55. Accelerated growth after cutting in western white pine. By I. T. Haig. 5 pp. Dec. 1924.

U 56. Ten years' trial of some introduced species at Priest River Experiment Station. By R. H. Weidman. 3 pp. Jan. 1925.

U 57. Chemical weed control at the Savenac Nursery. By W. G. Wahlenberg. 4 pp. Feb. 1925.

U 58. The effect of weather on the inflammability of forest fire fuels. By H. T. Gisborne. 3 pp. Mar. 1925.

U 59. Forest Service inventions becoming numerous. By H. T. Gisborne. 2 pp. Apr. 1925.

U 60. The effect of slash disposal on subsequent reproduction. By I. T. Haig. 3 pp. May 1925.

U 61. Fire resistance of northern Rocky Mountain conifers. By H. R. Flint. 5 pp. June 1925.

	Number	
U	62.	Drought not yet broken. By George M. Jemison. 2 pp., 1 chart. May 1932.
L	63.	Breakage losses and cull percent of timber in the Inland Empire. By I. V. Anderson. 3 pp. Apr. 1934.
L	64.	An economic tree classification for ponderosa pine. By I. V. Anderson. 19 pp., 4 plates. June 1934.
L	65.	Paired minimum temperatures as indices of fair or foul weather. By H. T. Gisborne. 2 pp. July 1934.
A	66.	Overgrazing reduces cattle gains and increases production costs. By Leon C. Hurtt. 4 pp. July 1934.
U	67.	The rating of forest fire danger. By H. T. Gisborne. 3 pp. Jan. 1935.
L	68.	A comparison of long-log and short-log scale. By C. W. Bloom. 3 pp. May 1935.
A	69.	Regrassing Montana dry farms. By Leon C. Hurtt. 4 pp. June 1935.
L	70.	Progress report on the forest resource survey. By G. M. DeJarnette. 5 pp., 1 map. July 1935.
A	71.	Cattle production costs are increased by overgrazing. By Leon C. Hurtt. 5 pp. July 1935.
L	72.	Match plank and commercial lumber from western white pine logs. By I. V. Anderson. 3 pp. July 1935.
U	73.	The character of the 1935 fire season in Region One. By H. T. Gisborne. 4 pp. Nov. 1935.
U	74.	Relation of tree size in western white pine to log-making costs. By E. F. Rapraeger. 3 pp. Apr. 1936.
U	75.	What percent of tree volume is in each log of a western white pine tree? By E. F. Rapraeger. 2 pp. May 1936.
L	76.	Test of pruning equipment and methods in western white pine. By Kenneth P. Davis. 5 pp., 3 pl. Nov. 1936.
U	77.	The character of the 1936 fire season in region one. By George M. Jemison. 3 pp., 1 chart. Dec. 1936.

	Number	
U	78.	Larch--Douglas-fir board-foot yield tables. By L. J. Cummings. 3 pp., chart, table. Apr. 1937.
A	79.	Growth after logging of larch--Douglas-fir stands in northwestern Montana. By Division of Silviculture. 4 pp. Apr. 1937.
U	80.	Variations of some fire danger factors with altitude, aspect, and time of day. By G. L. Hayes. 6 pp., 2 figs. Apr. 1937.
A	81.	Survival increased by carefulness in field planting. By Wm. H. Cushman and R. H. Weidman. 3 pp. May 1937.
A	81.	Production of lumber, lath, and shingles in Idaho and Montana, 1936. By Division of Forest Economics. 3 pp. Aug. 1937.
A	82.	The character of the 1937 fire season in region one. By H. T. Gisborne. 3 pp. Feb. 1938.
A	83.	Brushfield reforestation in the St. Joe National Forest, Idaho. By C. S. Schopmeyer. 3 pp., 1 pl. Feb. 1938.
A	84.	An instance of insect damage resulting from zero-margin selective cutting of ponderosa pine. By James C. Evenden 4 pp. Apr. 1938.
A	85.	The northern Rocky Mountain fire danger meter, model No. 5. By H. T. Gisborne. 3 pp. May 1938.
L	86.	Production of lumber and timber products in Idaho and Montana, 1937. By Division of Forest Economics. 4 pp. July 1938.
A	87.	The character of the 1938 fire season in region one. By H. T. Gisborne. 3 pp. Nov. 1938.
A	88.	Taking the guess out of cedar pole inventories. By L. J. Cummings, Richard M. Varney, and Robert E. Swanson. 8 pp. Nov. 1938.
U	89.	Downy brome (cheatgrass) range for horses. By Leon C. Hurtt. 4 pp. Jan. 1939.
A	90.	Direct seeding in the western white pine type. By C. S. Schopmeyer. 10 pp. May 1939.

	Number	
A	91.	Production of lumber, lath, and shingles in Idaho and Montana, 1938. By Division of Forest Economics. 3 pp. Aug. 1939.
L	92.	Overgrazing increases production costs by reducing number and weight of range calves. By Leon C. Hurtt. 3 pp. Sept. 1939.
A	93.	Character of the 1939 fire season in region one. By H. T. Gisborne. 3 pp. Nov. 1939.

End of series.

Replaced by Research Notes

FOREST SURVEY RELEASES

	Number	
U	1.	Cutting depletion in the northern Rocky Mountain region, including sawlog depletion in southern Idaho. S. B. Hutchison and C. N. Whitney. 59 pp. Mimeo. & mult. 1936.
L	2.	Forest statistics Pend Oreille County, Washington. Division of Forest Economics. 24 pp. Mimeo. & mult. 1937.
A	3.	Definition of the procedure, terms, and classifications. Division of Forest Economics. 14 pp. Mimeo. Apr. 1937.
L	4.	Forest statistics Spokane County, Washington. Division of Forest Economics. 24 pp. Mimeo. & mult. May 1937.
L	5.	Forest statistics Stevens County, Washington. Division of Forest Economics. 24 pp. Mimeo. & mult. June 1937.
L	6.	Forest statistics Boundary County, Idaho. Division of Forest Economics. 30 pp. Mimeo. & mult. July 1937.
L	7.	Forest statistics Bonner County, Idaho. Division of Forest Economics. 31 pp. Mimeo. & mult. Aug. 1937.
L	8.	Forest statistics Benewah County, Idaho. Division of Forest Economics. 32 pp. Mimeo. & mult. Sept. 1937.
L	9.	Forest statistics Kootenai County, Idaho. Division of Forest Economics. 35 pp. Mimeo. & mult. Dec. 1937.
L	10.	Forest statistics Latah County, Idaho. Division of Forest Economics. 32 pp. Mimeo. & mult. Jan. 1938.
L	11.	Forest statistics Shoshone County, Idaho. Division of Forest Economics. 32 pp. Mimeo. & mult. Feb. 1938.
L	12.	Forest statistics Nez Perce County, Idaho. Division of Forest Economics. 28 pp. Mimeo. & mult. Mar. 1938.
L	13.	Forest statistics Lewis County, Idaho. Division of Forest Economics. 26 pp. Mimeo. & mult. May 1938.
L	14.	Forest statistics Clearwater County, Idaho. Division of Forest Economics. 35 pp. Mimeo. & mult. June 1938.
L	15.	Forest statistics Idaho County, Idaho. Division of Forest Economics. 31 pp. Mimeo. & mult. Sept. 1938.
A	16.	Western red cedar pole resources in North Idaho and northeastern Washington. L. J. Cummings and R. M. Varney. 36 pp. Mimeo. & mult. Mar. 1939.

Number

A 17. Consumption of timber products in the northern Rocky Mountain region. C. N. Whitney and S. B. Hutchison. 71 pp. Mult. Jan. 1940.

L 18. Forest increment in North Idaho. L. J. Cummings and Paul D. Kemp. 74 pp. Mult. May 1940.

A 19. Northern Idaho's forest problems. Division of Forest Economics. 24 pp. Mult. Apr. 1941.

L 20. The forest situation in Lincoln County, Montana. S. Blair Hutchison. 57 pp., illus. Mult. Mar. 1942.

A 21. The forest situation in Ravalli County, Montana. Lawrence W. Zach and S. Blair Hutchison. 48 pp., illus. Mult. July 1943.

End of Series

FOREST SURVEY STATISTICAL SERVICE

	Number	
A	1.	Forest statistics for northern Idaho. 20 pp. Mult. Aug. 1941.
A	2.	Forest statistics for Lincoln County, Montana. 12 pp. Mult. Oct. 1941.
A	3.	Forest statistics for Flathead County, Montana. 12 pp. Mult. Oct. 1941.
A	4.	Forest statistics for Lake County, Montana. 7 pp. Mult. Dec. 1941.
A	5.	Forest statistics for Sanders County, Montana. 7 pp. Mult. Dec. 1941.
A	6.	Forest statistics for Mineral County, Montana. 7 pp. Mult. Dec. 1941.
A	7.	Forest statistics for Ravalli County, Montana. 7 pp. Mult. Dec. 1941.
A	8.	Highlights of the Missoula County forest situation. 7 pp. Mult. June 1942.
A	9.	Highlights of the forest situation in Lewis & Clark County (west of Continental Divide). 7 pp. Mult. June 1942.
A	10.	Highlights of the forest situation in Deerlodge County (west of Continental Divide). 7 pp. Mult. June 1942.
A	11.	Highlights of the forest situation in Silver Bow County (west of Continental Divide). 7 pp. Mult. June 1942.
A	12.	Highlights of the Powell County forest situation. 8 pp. Mult. Aug. 1942.
A	13.	Highlights of the Granite County forest situation. 7 pp. Mult. Aug. 1942.
A	14.	Highlights of the forest situation in western Montana. 10 pp. Mult. May 1943.
A	15.	Highlights of the forest situation in Chouteau County. 8 pp. Mult. June 1943.

Number

L 16. Highlights of the forest situation in Fergus County. 8 pp. Mult. Sept. 1943.

L 17. Highlights of the forest situation in Judith Basin County. 8 pp. Mult. Oct. 1943.

A 18 Highlights of the forest situation on the national forests of western Montana. 26 pp. Mult. Apr. 1944.

End of Series

RESEARCH NOTES

	Number	
U	1.	Successful reforestation by direct seeding using poisons for rodent control. C. S. Schopmeyer. 5 pp., fig. Mimeo. Jan. 1940.
U	2.	Christmas tree production in western Montana, 1939. E. F. Rapraeger. 3 pp. Mimeo. Jan. 1940.
U	3.	Early effects of thinning pure ponderosa pine in western Montana. G. R. Fahnestock and C. A. Wellner. 3 pp., pl. Mimeo. Feb. 1940.
U	4.	Effects of cleaning in a reproduction stand of western white pine and associates. C. A. Wellner. 4 pp., pl. Mimeo. Mar. 1940.
U	5.	The use of western red cedar in reforestation by direct seeding. C. S. Schopmeyer. 4 pp. Mimeo. Mar. 1940.
U	6.	Second-year results of direct-seeding experiments in the western white pine type, using screens for rodent control. C. S. Schopmeyer. 7 pp. Mimeo. May 1940.
U	7.	Preliminary 1939 log prices in the northern Rocky Mountain region. Division of Forest Economics. 2 pp. Mimeo. & mult. July 1940.
U	8.	Production of lumber and timber products in Idaho and Montana, 1939. Division of Forest Utilization Service. 3 pp. Mimeo. Aug. 1940.
A	9.	Range calf production as affected by grazing intensity. By Leon C. Hurtt and E. J. Woolfolk. 5 pp. Mimeo. Aug. 1940.
L	10.	Comparison of intensive versus limited forest fire control action. By H. T. Gisborne. 5 pp. Mimeo. Sept. 1940.
U	11.	Employment per unit of forest product. E. F. Rapraeger. 2 pp. Mimeo. Oct. 1940.
U	12.	Christmas tree production in western Montana in 1940. Division of Forest Utilization Service. 2 pp. Mimeo. Jan. 1940.
U	13.	Character of the 1940 fire season in region one. H. T. Gisborne. 3 pp. Mimeo. Feb. 1941.

	Number	
L	14.	Production of lumber, lath, and shingles in Idaho and Montana, 1940. Division of Forest Utilization Service. 3 pp. Mimeo. May 1941.
U	15.	Preliminary 1940 log prices in the northern Rocky Mountain region. Division of Forest Economics. 2 pp. Mimeo. & Mult. May 1941.
L	16.	Determining tree d.b.h. from stump measurements. Division of Forest Economics. 1 p., 4 charts. Mimeo. & mult. Sept. 1941.
A	17.	Volume distribution in ponderosa pine trees. C. A. Wellner and Ralph Hanson. 2 pp. Mimeo. Nov. 1941.
A	18.	Direct seeding of western white pine using poisons for rodent control. D. G. McKeever. 6 pp. Mimeo. Mar. 1942.
U	19.	Christmas tree production in western Montana in 1941. Division of Forest Utilization Service. 2 pp. Mimeo. Apr. 1942.
A	20.	Results of direct seeding of ponderosa pine in the northern Rocky Mountain region. D. G. McKeever. 6 pp. Mimeo. May 1942.
A	21.	Results of direct seeding of western redcedar and Engelmann spruce in the northern Rocky Mountain region. D. G. McKeever. 9 pp. Mimeo. May 1942.
A	22.	Cattle production increased on Northern Great Plains ranges under conservative stocking. Leon C. Hurtt. 7 pp. Mult. May 1942.
U	23.	Preliminary 1941 log prices in the northern Rocky Mountain region. Division of Forest Utilization Service. 2 pp. Mult. June 1942.
U	24.	New facts on lightning. H. T. Gisborne. 3 pp. Mimeo. June 1942.
U	25.	A discussion of hygrographs. G. L. Hayes. 6 pp. Mimeo. July 1942.
A	26.	Earlier marketing of range cows - is this a desirable range management practice? Leon C. Hurtt. 6 pp. Mimeo. Aug. 1942.
U	27.	Better production from shortgrass ranges through conservative sheep grazing. E. J. Woolfolk. 5 pp. Mimeo. Nov. 1942.

	Number	
L	28.	Chemical fireproofing of cured grass. H. T. Gisborne. 2 pp. Mimeo. Aug. 1943.
U	29.	(Note not released.)
A	30.	Christmas tree production in western Montana in 1942. C. N. Whitney. 3 pp. Mimeo. Oct. 1943.
U	31.	The application of sample log scaling in region one. Lawrence W. Zach. 10 pp., 1 chart. Mimeo & mult. Nov. 1943.
A	32.	Salt-bonemeal mixture used by breeding cows on shortgrass ranges during four summer and three winter seasons. E. J. Woolfolk. 6 pp. Mimeo. Feb. 1944.
U	33.	Reseeding abandoned farm lands to crested wheatgrass will increase range capacity. C. Allan Friedrich. 5 pp. Mimeo. July 1944.
L	34.	Christmas tree production in western Montana in 1943. J. L. Timm. 2 pp. Mimeo. Sept. 1944.
A	35.	Slash burns well at B. I. 10 to 20. H. T. Gisborne. 2 pp. Mimeo. Nov. 1944.
U	36.	Critical fire season indicated for 1945 in the northern Rocky Mountain region. H. T. Gisborne. 4 pp. Mimeo. Feb. 1945.
L	37.	Christmas tree production in western Montana in 1944. J. L. Timm. 2 pp. Mimeo. Mar. 1945.
L	38.	Seeding crested wheatgrass on cheatgrass land. C. Allan Friedrich. 4 pp. Mimeo. Mar. 1945.
U	39.	Conversion of standard pole classes to tree diameters in lodgepole pine. John L. Timm. 2 pp. Mimeo. Mar. 1946.
L	40.	Christmas tree production in western Montana in 1945. John L. Timm. 2 pp. Mimeo. May 1946.
A	41.	How heavily should western white pine be pruned? Austin E. Helmers. 2 pp., 4 figs. Mimeo. & mult. Apr. 1946.
A	42.	Fifth-year results of direct seeding with western redcedar and Engelmann spruce. Austin E. Helmers. 4 pp. Mimeo. Apr. 1946.
A	43.	Improving composition in young western white pine stands. C. A. Wellner. 6 pp. Mimeo. June 1946.

	Number	
A	44.	Direct seeding western white pine - fifth-year results. Austin E. Helmers. 5 pp. Mimeo. June 1946.
A	45.	Pruning wound healing on western white and ponderosa pines. Austin E. Helmers. 6 pp. Dec. 1946.
A	46.	Results of direct seeding ponderosa pine. Austin E. Helmers. 5 pp. Mimeo. Dec. 1946.
A	47.	Estimating light intensity in residual stands in advance of cutting. C. A. Wellner. 4 pp. Mimeo. Dec. 1946.
A	48.	Observations on deer and hunters in the Fisher River District, Montana. Lowell Adams. 4 pp., chart. Mimeo & mult. Mar. 1947.
A	49.	1945 Lumber production in the northern Rocky Mountain region. Paul N. Holmes. 3 pp. Mimeo. & mult. Mar. 1947.
A	50.	Montana Christmas tree production highest on record. Paul N. Holmes and Russell K. LeBarron. 4 pp. Mimeo. Mar. 1947.
A	51.	Test of hemlock railroad ties completed. Forest Utilization Service. 2 pp. Mimeo. Apr. 1947.
A	52.	Seeding grass by airplane on western Montana's burned-over timber lands. C. Allan Friedrich. 5 pp., 4 figs. Mimeo. June 1947.
A	53.	Lumber production gains in the northern Rocky Mountain region. M. B. Dickerman. 2 pp., 2 tables. Mimeo. & mult. Aug. 1947.
A	54.	1946 - A peak year in pole production. M. B. Dickerman. 5 pp. Mimeo. Aug. 1947.
A	55.	The growth rate of selectively cut ponderosa pine in western Montana. Arthur L. Roe. 4 pp. Mimeo. Sept. 1947.
U	56.	The effects on mammals of DDT used in forest insect control in the northern Rocky Mountains. Lowell Adams. 3 pp. Mimeo. Nov. 1947.
A	57.	What is the right cutting cycle for ponderosa pine? Arthur L. Roe. 3 pp. Mimeo. Dec. 1947.
A	58.	Early results from thinning seed spots. Austin E. Helmers. 5 pp. Processed. January 5, 1948.
A	59.	Christmas tree shipments drop 24 percent. M. B. Dickerman. 5 pp. Processed. January 1948.

Number

A 60. Effect of bark growth in measurement of periodic growth of individual trees. Thomas L. Finch. 3 pp. Processed. March 1948.

A 61. Protection of rustic finishes against mold attacks. Lincoln A. Mueller. 2 pp. Mimeo. April 1948.

A 62. Pole production continued upward in 1947. Ben M. Huey. 3 pp. Stenalithed. April 1948.

A 63. Composition and stocking of the young stand 35 years after a selective cutting in ponderosa pine. 6 pp., illus. Mult. May 1948.

A 64. Comparative marketability of pine and mixed species in the Inland Empire. S. Blair Hutchison. 5 pp. Stenalithed. June 1948.

A 65 What caused "blight" on Christmas trees in the northern Rockies in 1947? Arthur L. Roe. 5 pp. Mult. July 1948.

A 66. A preliminary classification of tree vigor for western larch and Douglas-fir trees in western Montana. Arthur L. Roe. 6 pp., illus. Mult. November 1948.

A 67. Cottonwood railway tie test completed. Lincoln A. Mueller. 2 pp. Stenalithed. December 1948.

A 68. Specifications for knotty western white pine veneer flitches. I. V. Anderson. 2 pp. Stenalithed. December 1948.

A 69. Specifications for western larch peeler logs. I. V. Anderson. 1 p. Stenalithed. December 1948.

A 70. Thirty-nine years' growth in a cut-over larch stand. Arthur L. Roe. 6 pp., illus. Mult. December 1948.

A 71. Christmas tree shipments increase. Ben M. Huey. 6 pp. Stenalithed. January 1949.

A 72. Minimum rate fire insurance. H. T. Gisborne. 4 pp. Stenalithed. April 1949.

A 73. Pulpwood production on the increase. M. B. Dickerman. 1 p. Stenalithed. May 1949.

A 74. Pole production down in 1948. M. B. Dickerman. 2 pp. Stenalithed. May 1949.

Number

A 75. Lumber production tops 24-year record in northern region. M. B. Dickerman. 5 pp. Stenalithed. December 1949.

A 76. A tin can infiltrometer with improvised baffle. A. B. Evanko. 2 pp., illus. Processed. February 1950.

A 77. Recommendations for poisoning western hemlock. Marvin W. Foiles. 2 pp. Processed. February 1950.

A 78. Growth in understocked and overstocked western white pine stands. Richard F. Watt. 3 pp. Processed. March 1950.

A 79. Dispersal and survival of seed in a partially-cut ponderosa pine stand. A. E. Squillace and Lowell Adams. 4 pp. Processed. March 1950.

A 80. Consumption of ponderosa pine seed by small mammals. Lowell Adams. 4 pp. Processed. March 1950.

A 81. Can we induce prompt regeneration in selectively-cut ponderosa pine stands? Arthur L. Roe and A. E. Squillace. 7 pp. Processed. March 1950.

A 82. Montana Christmas tree shipments high again. Ben M. Huey. 4 pp. Processed. March 1950.

A 83. Pole production gains in 1949. M. B. Dickerman. 2 pp. Processed. May 1950.

A 84. Pulpwood cutting continues to increase. M. B. Dickerman. 1 p. Processed. May 1950.

A 85. The profit in pruning western white and ponderosa pine. Ben M. Huey. 6 pp. Processed. July 1950.

STATION PAPERS

	Number	
U	1.	A preliminary study of root diseases in western white pine. John Ehrlich. 10 pp. Mimeo. Oct. 1939.
U	2.	Possibilities of partial cutting in young western white pine. E. F. Rapraeger. 19 pp. Mimeo. Jan. 1940.
U	3.	Blister rust control in the management of western white pine. K. P. Davis and Virgil D. Moss. 34 pp. Mimeo. July 1940.
A	4.	Possibilities of wood pulp production in the northern Rocky Mountain region. E. F. Rapraeger. 43 pp. Mimeo. Mar. 1941.
A	5.	Results to date of studies of the durability of native woods, treated and untreated. C. N. Whitney. 54 pp. Mimeo. Rev. Jan. 1946.
A	6.	Changes in Benewah County forest statistics. Paul D. Kemp. 23 pp. Mult. July 1947.
U	7.	A guide for range reseeding on and near the national forests of Montana. C. Allan Friedrich. 38 pp. Mimeo. Oct. 1947.
U	8.	Pole blight - a new disease of western white pine. C. A. Wellner. 3 pp., illus. Mult. Nov. 1947.
A	9.	Management practices for Christmas tree production. C. A. Wellner and A. L. Roe. 21 pp., illus. Mult. Nov. 1947.
A	10.	The merits of lodgepole pine poles. I. V. Anderson. 6 pp. Mimeo. Nov. 1947.
A	11.	Tables for approximating volume growth of individual trees. P. D. Kemp and M. E. Metcalf. Mar. 1948.
A	12.	Forest resource statistics, Cascade County, Montana. H. J. Pissot and E. F. Peffer. Apr. 1948.
A	13.	Forest resources of northern Montana. C. W. Brown and W. C. Hodge. June 1948.
U	14.	List of publications available for distribution or loan, 1910 through 1947. NRM Station. June 1948. Superseded by this publication.
A	15.	Review of published information on the larch--Douglas-fir forest type. Russell K. LeBarron. Nov. 1948.
A	16.	Development of a blister rust control policy for the national forests in the Inland Empire. Donald N. Matthews and S. Blair Hutchison. Dec. 1948.

	Number	
A	17.	Disintegration of girdled western hemlock and grand fir. Austin E. Helmers. December 1948.
U	18.	Suggested Montana Douglas-fir Christmas tree standards. S. Blair Hutchison and Ben M. Huey. January 1949.
U	19.	The possibilities of modifying lightning storms in the northern Rockies. Vincent J. Schaefer. January 1949.
A	20.	Forest resources of southern Montana. W. C. Hodge, C. W. Brown, and T. L. Finch. May 1949.
A	21.	Forest resources of Northeast Washington. Paul D. Kemp and H. J. Pissot. May 1949.
A	22.	Bibliography of ponderosa pine. A. L. Roe and K. N. Boe. March 1950.
A	23.	Forest resources of south central Montana. T. L. Finch, W. C. Hodge, and M. E. Metcalf. April 1950.
A	24.	The cubic foot as a national log-scaling standard. E. F. Rapraeger. June 1950.
A	25.	Montana forest resource and industry statistics. Paul D. Kemp and M. B. Dickerman. October 1950.

MISCELLANEOUS PUBLICATIONS

A	1.	The Northern Great Plains Research Center, its work and aims. Division of Range Research. May 1950.